

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF092818\
 Data File : VF060383.D
 Acq On : 28 Sep 2018 22:41
 Operator : VA/AP
 Sample : J5170-19
 Misc : 7.43/5mL/MSVOA F/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-4

Quant Time: Sep 29 00:21:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F091918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 20 02:58:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	0.00	168	0	0.00	ug/l	-5.04
34) 1,4-Difluorobenzene	5.96	114	60	50.00	ug/l	0.20
63) Chlorobenzene-d5	10.29	117	73	50.00	ug/l	0.38
72) 1,4-Dichlorobenzene-d4	12.64	152	344	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.00	65	60	0.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	0.00%	
35) Dibromofluoromethane	0.00	113	0	0.00	ug/l	
Spiked Amount				50.000		
			Recovery	=	0.00%	
50) Toluene-d8	8.00	98	66	47.38	ug/l	0.29
Spiked Amount				50.000		
			Recovery	=	94.76%	
62) 4-Bromofluorobenzene	11.89	95	111	184.36	ug/l	0.39
Spiked Amount				50.000		
			Recovery	=	368.72%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
36) 1,1-Dichloropropene	4.46	75	143	191.071	ug/l #	41
37) Ethyl Acetate	4.47	43	883	2788.343	ug/l #	1
38) Carbon Tetrachloride	4.26	117	63	78.370	ug/l #	14
39) Methylcyclohexane	5.83	83	268	330.401	ug/l #	16
40) Benzene	4.96	78	66	38.892	ug/l #	1
41) Methacrylonitrile	5.08	41	131	762.359	ug/l #	23
42) 1,2-Dichloroethane	5.25	62	143	228.934	ug/l	79
43) Isopropyl Acetate	7.33	43	641	1681.380	ug/l #	48
44) Trichloroethene	5.87	130	60	118.801	ug/l	1
45) 1,2-Dichloropropane	6.68	63	91	207.195	ug/l #	42
46) Dibromomethane	6.57	93	71	226.158	ug/l #	5
47) Bromodichloromethane	6.78	83	117	155.081	ug/l #	26
48) Methyl methacrylate	7.08	41	488	1823.512	ug/l #	37
49) 1,4-Dioxane	7.06	88	168	70267.548	ug/l #	40
51) 4-Methyl-2-Pentanone	8.70	43	444	1511.065	ug/l #	35
52) Toluene	8.07	92	247	230.070	ug/l #	1
53) t-1,3-Dichloropropene	8.75	75	89	146.248	ug/l #	42
54) cis-1,3-Dichloropropene	7.70	75	70	91.307	ug/l #	37
55) 1,1,2-Trichloroethane	8.88	97	122	374.415	ug/l #	17
56) Ethyl methacrylate	9.05	69	176	447.236	ug/l #	27
57) 1,3-Dichloropropane	9.27	76	109	202.031	ug/l #	40
58) 2-Chloroethyl Vinyl ether	8.05	63	95	2730.737	ug/l	100
59) 2-Hexanone	10.00	43	828	3957.730	ug/l	72
60) Dibromochloromethane	9.20	129	70	144.136	ug/l #	13
61) 1,2-Dibromoethane	9.35	107	62	170.871	ug/l #	4
65) Chlorobenzene	9.87	112	77	46.540	ug/l #	41
66) 1,1,1,2-Tetrachloroethane	10.05	131	62	90.298	ug/l #	61
67) Ethyl Benzene	10.01	91	144	47.073	ug/l #	46
68) m/p-Xylenes	10.37	106	79	74.748	ug/l #	45
69) o-Xylene	10.81	106	161	135.816	ug/l #	1
71) Bromoform	10.74	173	70	185.633	ug/l #	31
73) Isopropylbenzene	11.25	105	62	2.008	ug/l #	51
74) N-amyl acetate	11.48	43	337	51.174	ug/l #	32
75) 1,1,2,2-Tetrachloroethane	11.79	83	69	12.607	ug/l #	55

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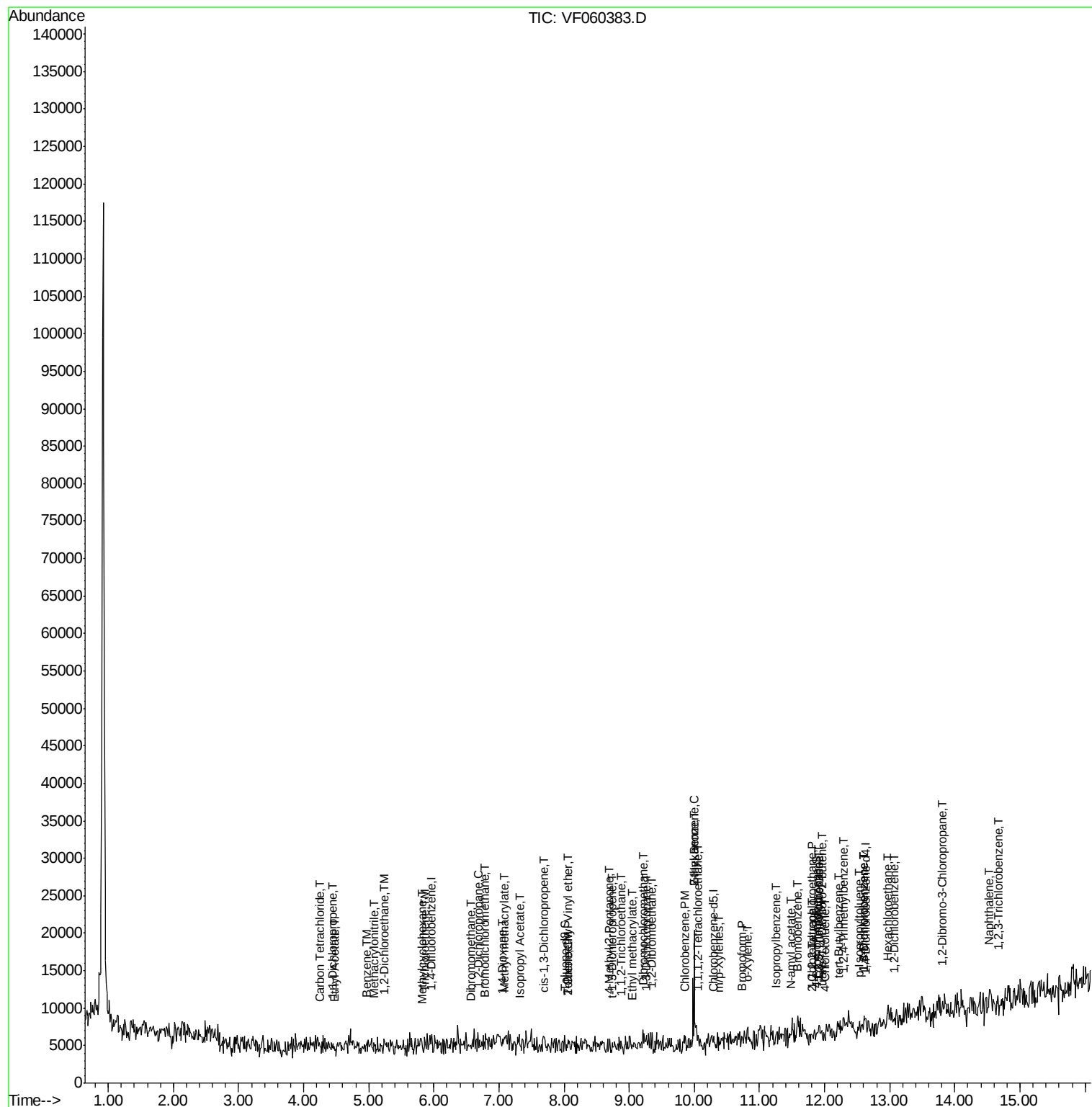
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,2,3-Trichloropropane	11.91	75	85	21.691	uq/l #	34
77) Bromobenzene	11.59	156	778	116.898	uq/l #	1
78) n-propylbenzene	11.66	91	120	Below Cal	#	57
79) 2-Chlorotoluene	11.82	91	124	5.953	uq/l #	42
80) 1,3,5-Trimethylbenzene	11.91	105	264	10.620	uq/l #	28
81) trans-1,4-Dichloro-2-buten	11.96	75	88	42.493	uq/l #	20
82) 4-Chlorotoluene	12.01	91	61	2.913	uq/l #	43
83) tert-Butylbenzene	12.22	119	122	4.841	uq/l #	28
84) 1,2,4-Trimethylbenzene	12.30	105	69	2.733	uq/l #	31
86) p-Isopropyltoluene	12.52	119	509	16.383	uq/l #	48
87) 1,3-Dichlorobenzene	12.61	146	63	5.066	uq/l #	24
88) 1,4-Dichlorobenzene	12.61	146	63	5.125	uq/l #	25
89) n-Butylbenzene	12.94	91	114	Below Cal	#	28
90) Hexachloroethane	12.99	117	86	12.196	uq/l #	22
91) 1,2-Dichlorobenzene	13.06	146	69	5.816	uq/l #	24
92) 1,2-Dibromo-3-Chloropropan	13.79	75	68	66.176	uq/l #	19
95) Naphthalene	14.52	128	448	29.633	uq/l #	68
96) 1,2,3-Trichlorobenzene	14.66	180	85	10.668	uq/l #	84

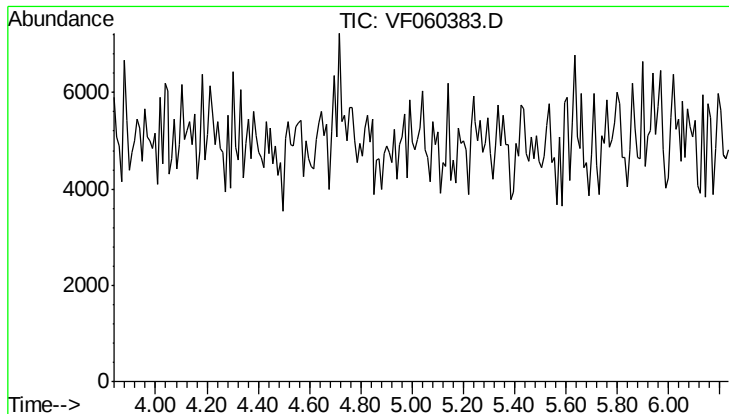
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 0.000 ug/l

Expected RT: 5.04 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Tot Ion: 168

Sig Exp Ratio

168 100

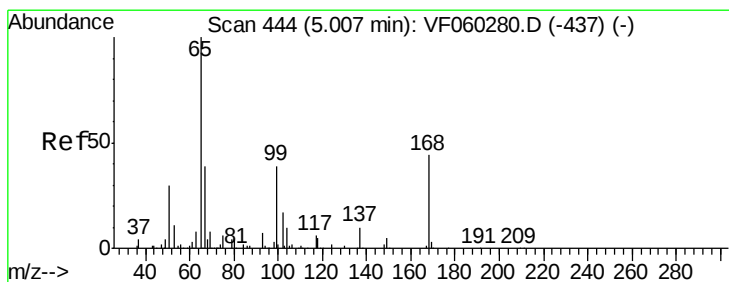
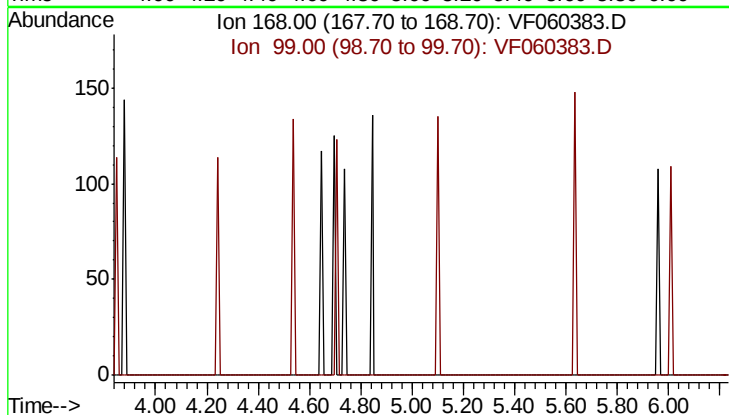
99 68.5

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

RT: 5.00 min Scan# 443

Delta R.T. -0.01 min

Lab File: VF060383.D

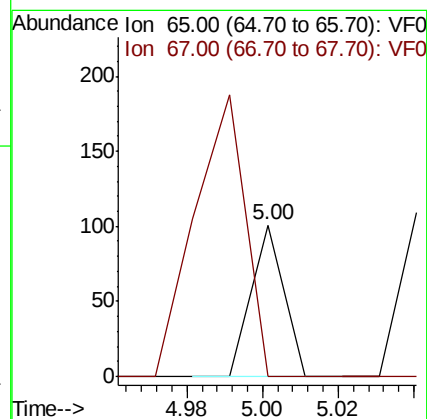
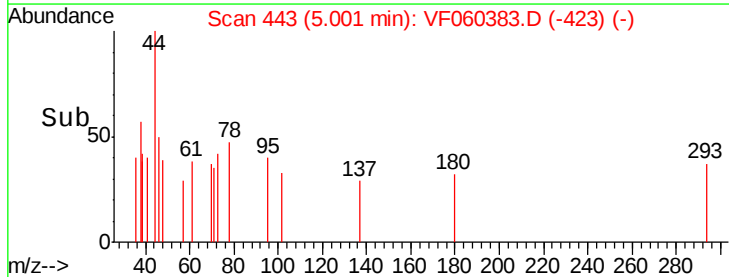
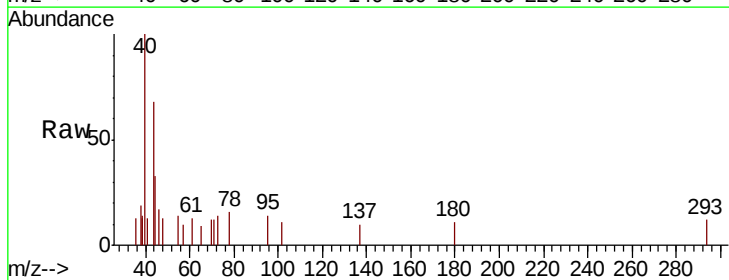
Acq: 28 Sep 2018 22:41

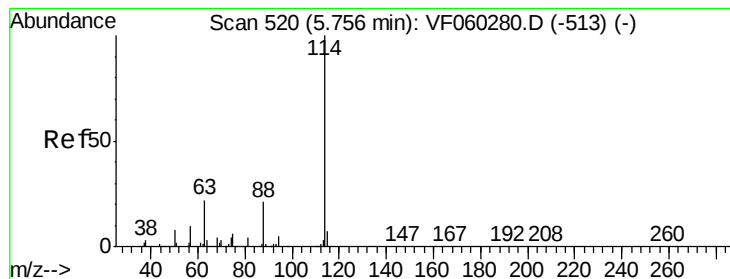
Tgt Ion: 65 Resp: 60

Ion Ratio Lower Upper

65 100

67 0.0 0.0 94.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.96 min Scan# 540

Delta R.T. 0.20 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4

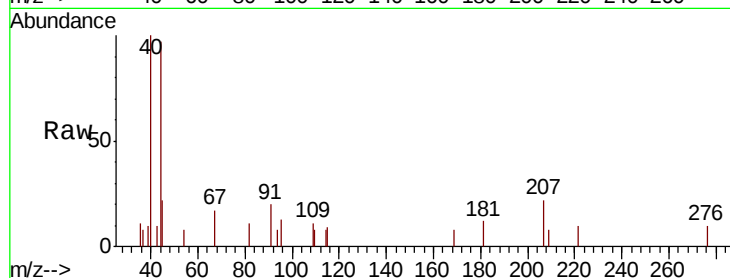
Tot Ion:114 Resp: 60

Ion Ratio Lower Upper

114 100

63 0.0 0.0 43.8

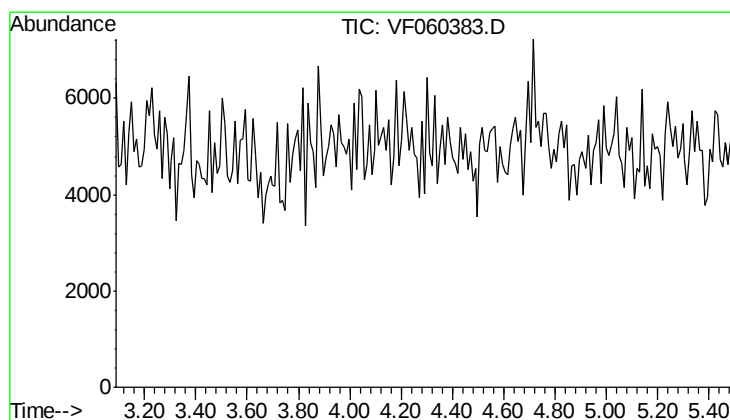
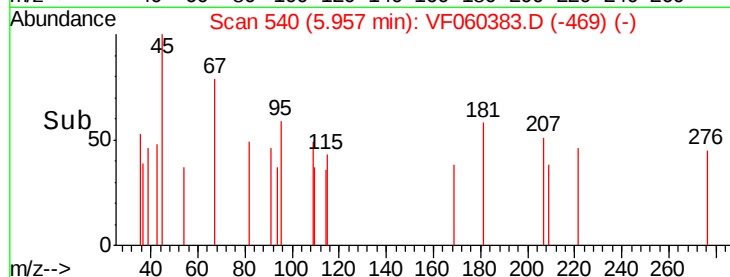
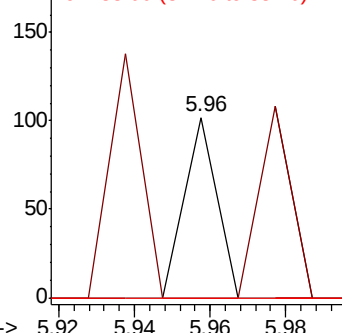
88 0.0 0.0 41.2



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 4.29 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

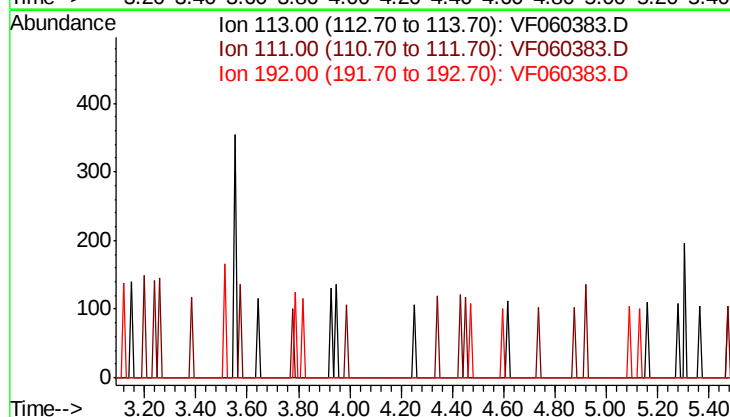
Tgt Ion: 113

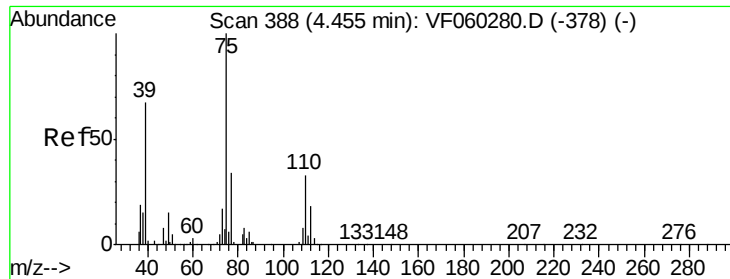
Sig Exp Ratio

113 100

111 99.5

192 16.3





#36

1,1-Dichloropropene

Concen: 191.071 ug/l

RT: 4.46 min Scan# 388

Delta R.T. 0.00 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4

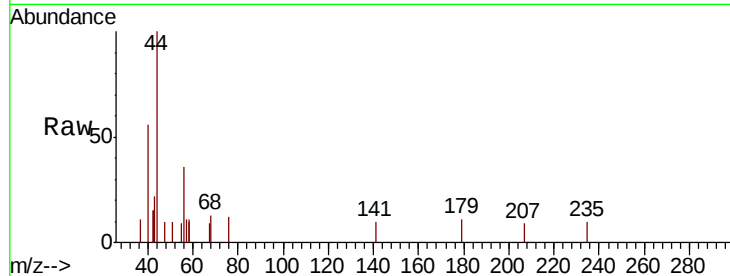
Tot Ion: 75 Resp: 143

Ion Ratio Lower Upper

75 100

110 0.0 16.4 49.2#

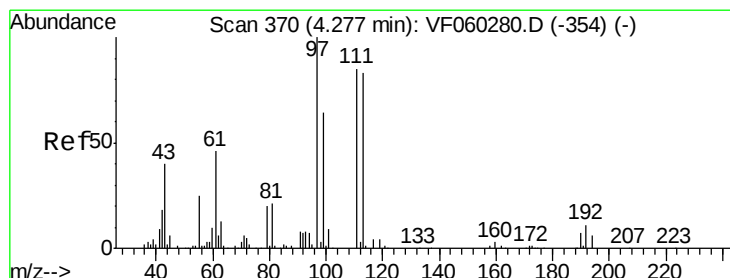
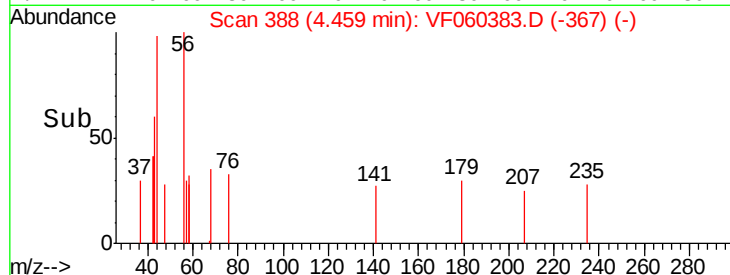
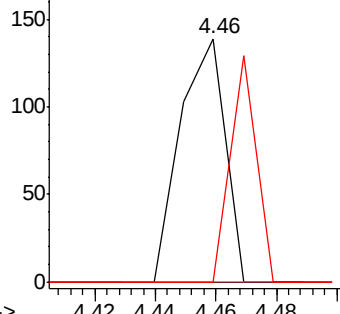
77 0.0 27.3 40.9#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VF0



#37

Ethyl Acetate

Concen: 2788.343 ug/l

RT: 4.47 min Scan# 389

Delta R.T. 0.19 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

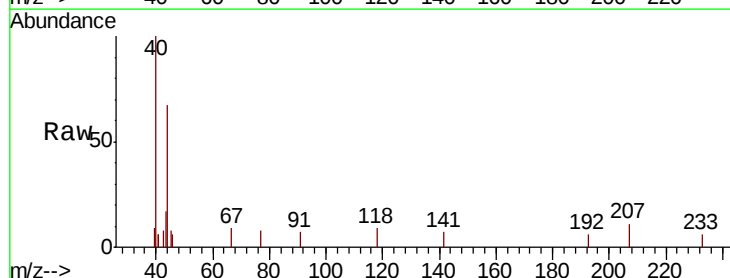
Tgt Ion: 43 Resp: 883

Ion Ratio Lower Upper

43 100

61 0.0 91.1 136.7#

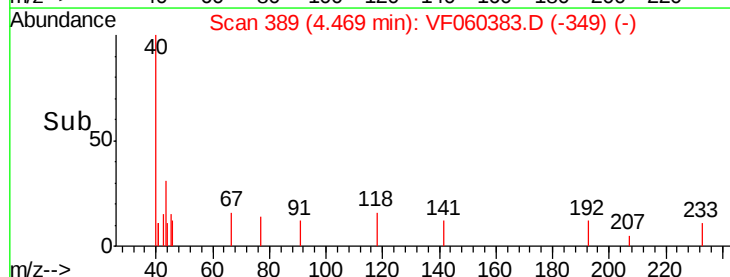
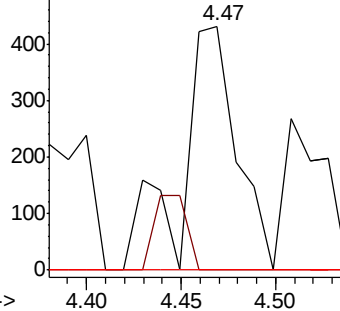
70 0.0 6.9 10.3#

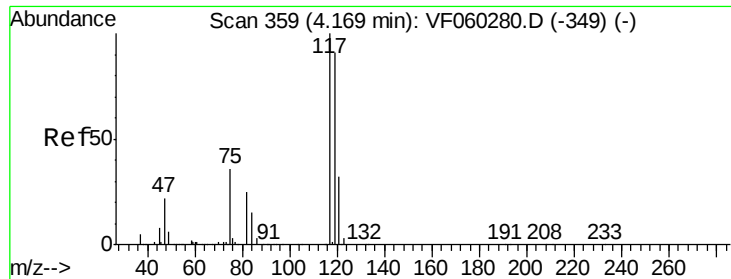


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 70.00 (69.70 to 70.70): VF0





#38

Carbon Tetrachloride

Concen: 78.370 ug/l

RT: 4.26 min Scan# 368

Delta R.T. 0.09 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

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HC-SOIL-4

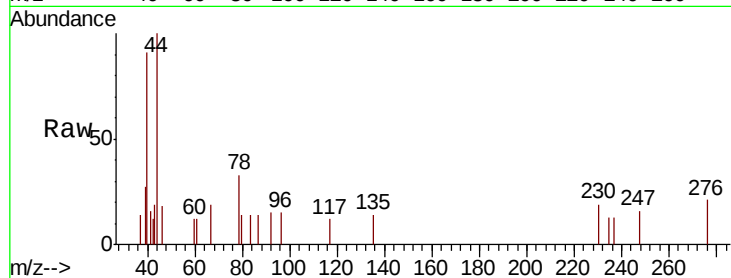
Tot Ion:117 Resp: 63

Ion Ratio Lower Upper

117 100

119 0.0 73.0 109.6#

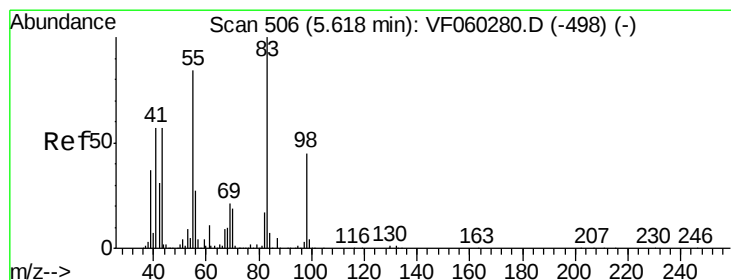
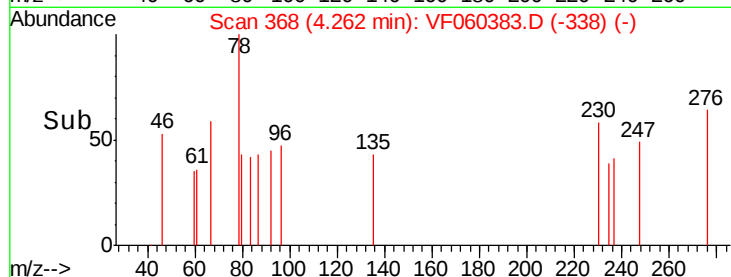
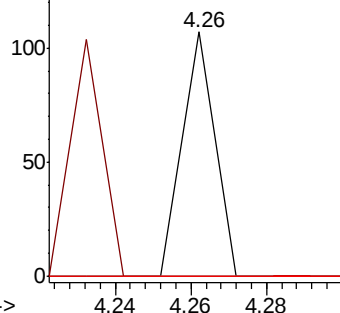
121 0.0 25.4 38.2#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#39

Methylcyclohexane

Concen: 330.401 ug/l

RT: 5.83 min Scan# 527

Delta R.T. 0.21 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

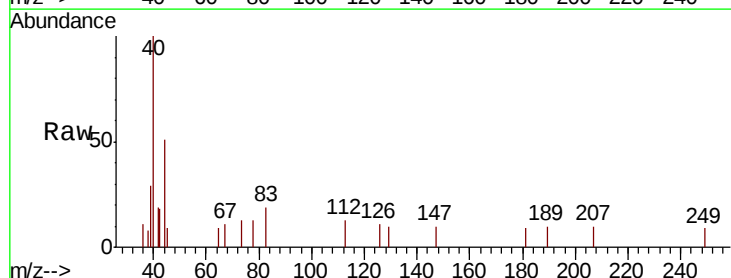
Tgt Ion: 83 Resp: 268

Ion Ratio Lower Upper

83 100

55 0.0 67.3 100.9#

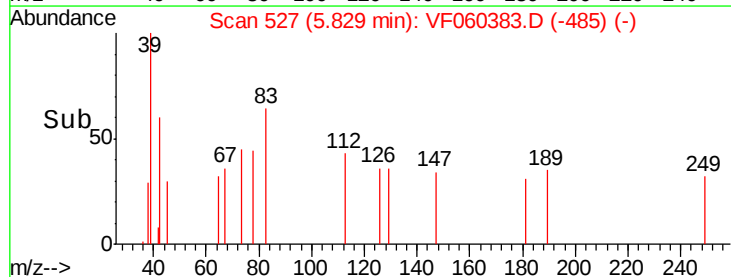
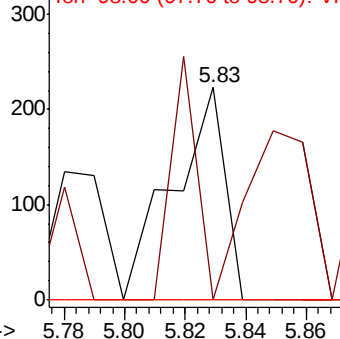
98 0.0 36.1 54.1#

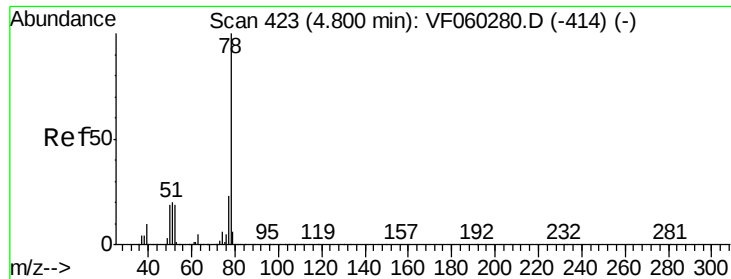


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 98.00 (97.70 to 98.70): VF0





#40

Benzene

Concen: 38.892 ug/l

RT: 4.96 min Scan# 439

Delta R.T. 0.16 min

Lab File: VF060383.D

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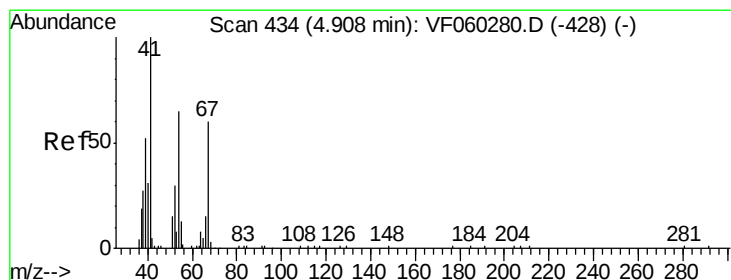
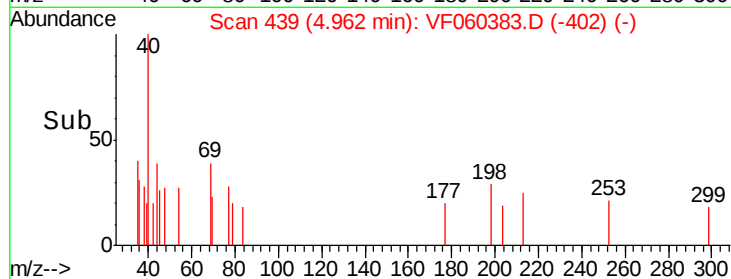
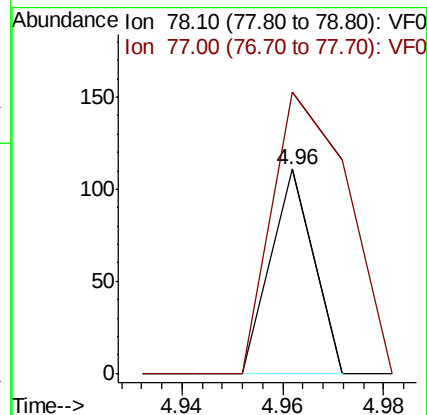
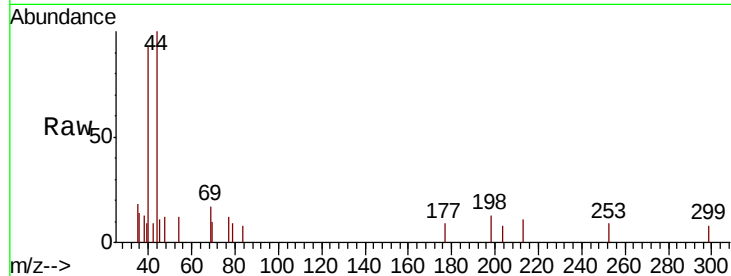
HC-SOIL-4

Tot Ion: 78 Resp: 66

Ion Ratio Lower Upper

78 100

77 137.8 18.4 27.6#



#41

Methacrylonitrile

Concen: 762.359 ug/l

RT: 5.08 min Scan# 451

Delta R.T. 0.17 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Tgt Ion: 41 Resp: 131

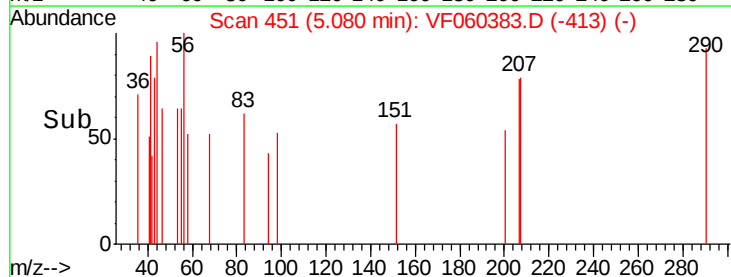
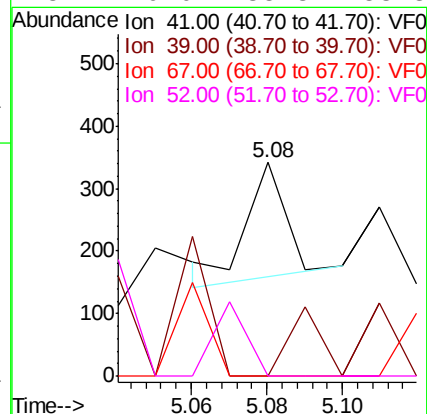
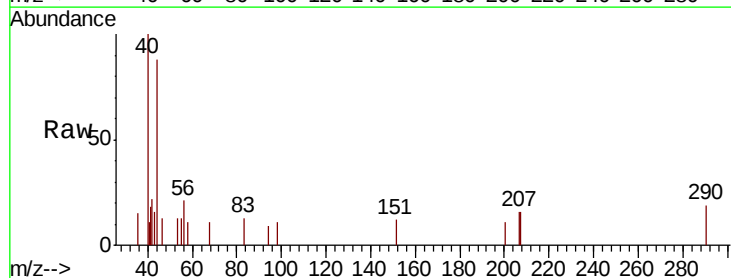
Ion Ratio Lower Upper

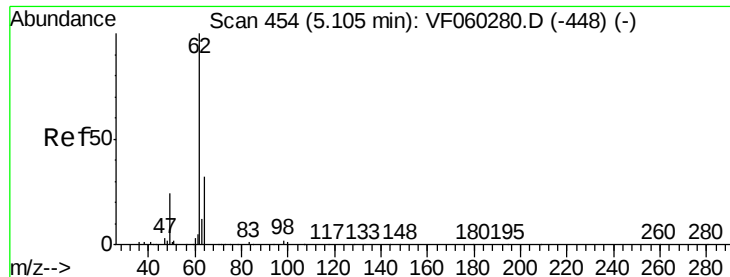
41 100

39 0.0 49.1 73.7#

67 0.0 48.2 72.4#

52 0.0 35.8 53.8#





#42

1,2-Dichloroethane

Concen: 228.934 ug/l

RT: 5.25 min Scan# 468

Delta R.T. 0.14 min

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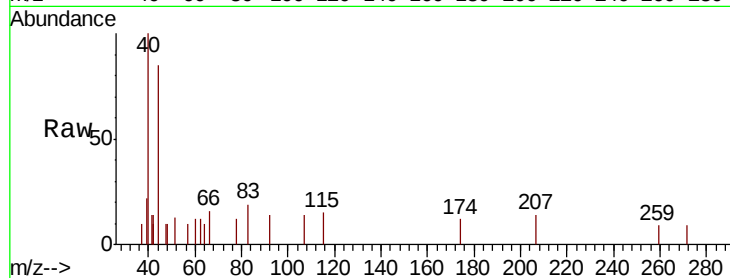
HC-SOIL-4

Tot Ion: 62 Resp: 143

Ion Ratio Lower Upper

62 100

98 0.0 0.0 14.4



Abundance Ion 62.00 (61.70 to 62.70): VF0

Ion 98.00 (97.70 to 98.70): VF0

150

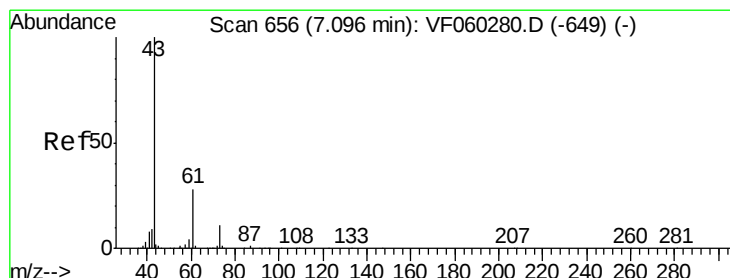
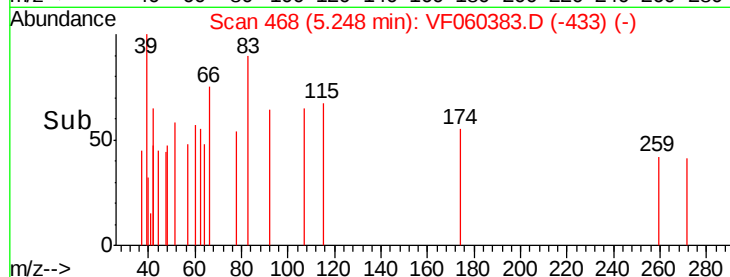
100

50

0

5.20 5.22 5.24 5.26 5.28

Time-->



#43

Isopropyl Acetate

Concen: 1681.380 ug/l

RT: 7.33 min Scan# 679

Delta R.T. 0.23 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

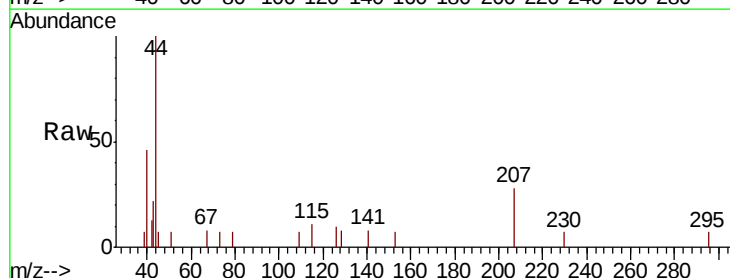
Tgt Ion: 43 Resp: 641

Ion Ratio Lower Upper

43 100

61 0.0 22.4 33.6#

87 0.0 0.6 0.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

Ion 87.00 (86.70 to 87.70): VF0

500

400

300

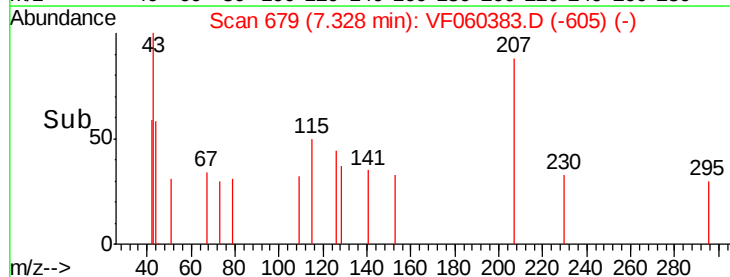
200

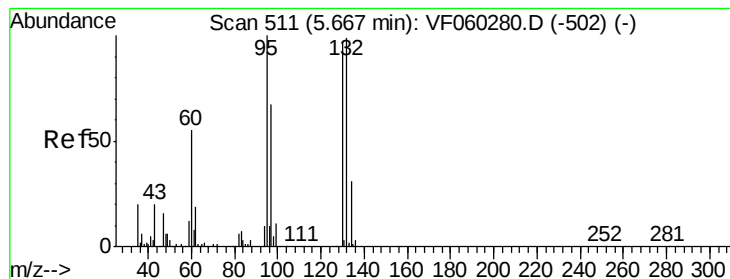
100

0

7.30 7.35

Time-->





#44

Trichloroethene

Concen: 118.801 ug/l

RT: 5.87 min Scan# 531

Delta R.T. 0.20 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

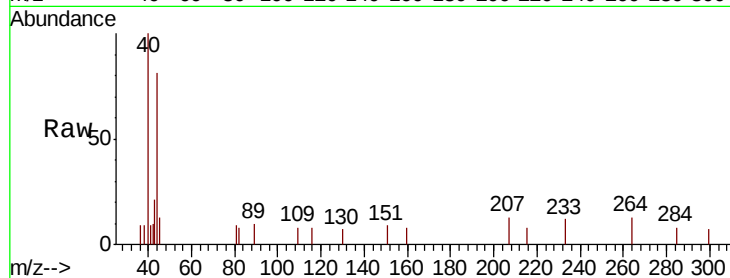
HC-SOIL-4

Tot Ion:130 Resp: 60

Ion Ratio Lower Upper

130 100

95 0.0 0.0 205.6



Abundance Ion 129.90 (129.60 to 130.60): VF0

Ion 94.90 (94.60 to 95.60): VF0

5.87

100

80

60

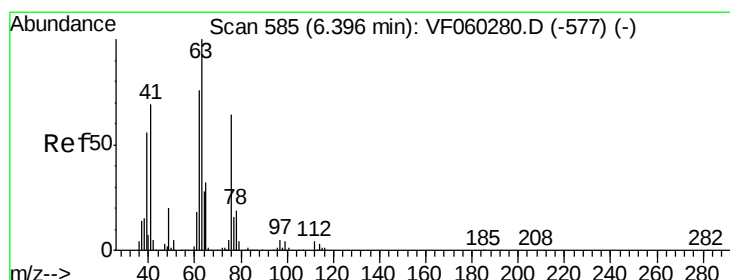
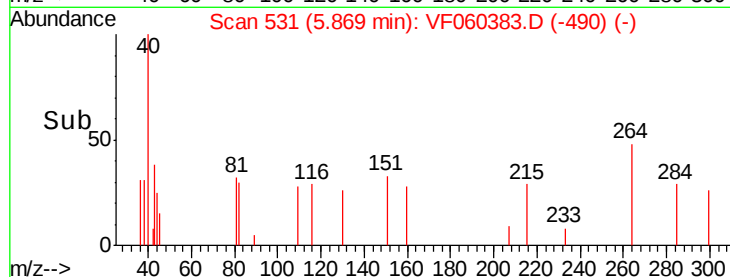
40

20

0

5.84 5.86 5.88 5.90

Time-->



#45

1,2-Dichloropropane

Concen: 207.195 ug/l

RT: 6.68 min Scan# 613

Delta R.T. 0.28 min

Lab File: VF060383.D

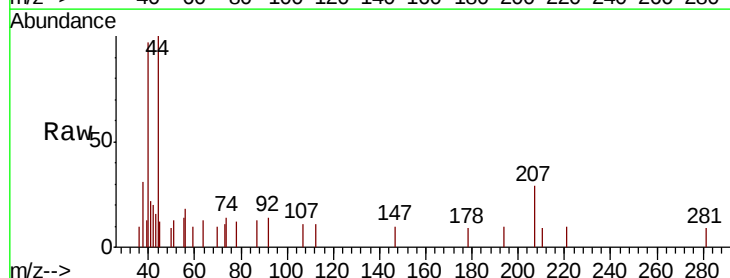
Acq: 28 Sep 2018 22:41

Tgt Ion: 63 Resp: 91

Ion Ratio Lower Upper

63 100

65 0.0 26.2 39.4#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 65.00 (64.70 to 65.70): VF0

6.68

150

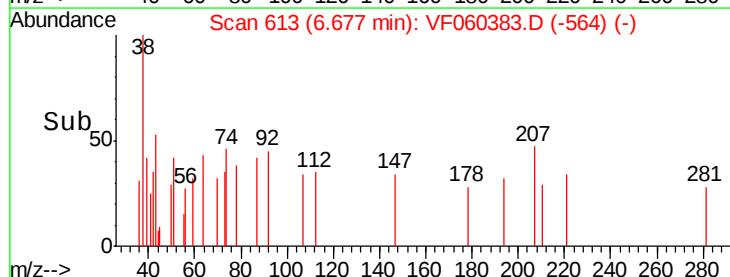
100

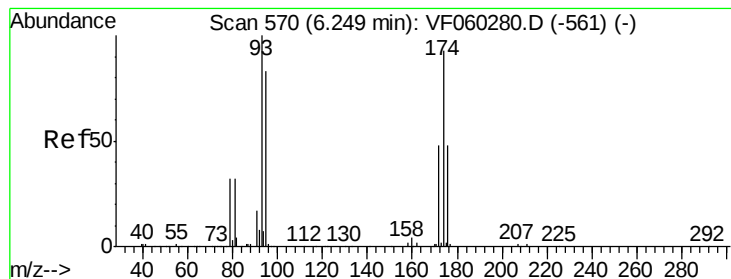
50

0

6.64 6.66 6.68 6.70

Time-->





#46

Dibromomethane

Concen: 226.158 ug/l

RT: 6.57 min Scan# 602

Delta R.T. 0.32 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4

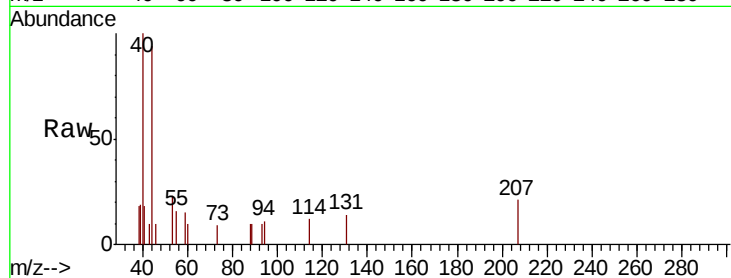
Tot Ion: 93 Resp: 71

Ion Ratio Lower Upper

93 100

95 0.0 67.0 100.6#

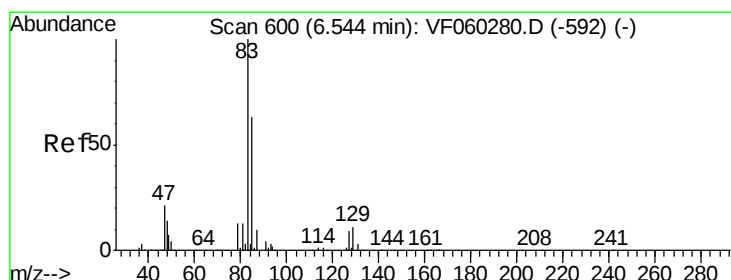
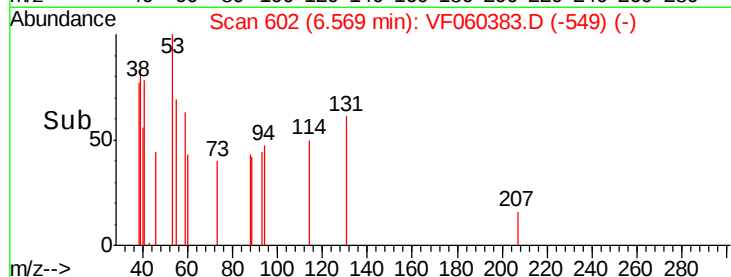
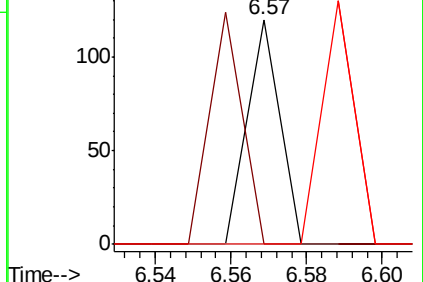
174 0.0 74.8 112.2#



Abundance Ion 93.00 (92.70 to 93.70): VF0

Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V



#47

Bromodichloromethane

Concen: 155.081 ug/l

RT: 6.78 min Scan# 623

Delta R.T. 0.23 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

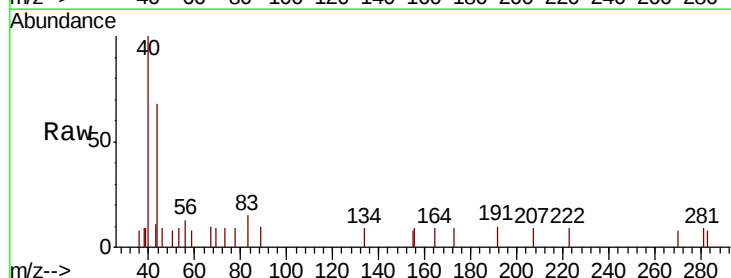
Tgt Ion: 83 Resp: 117

Ion Ratio Lower Upper

83 100

85 0.0 50.6 76.0#

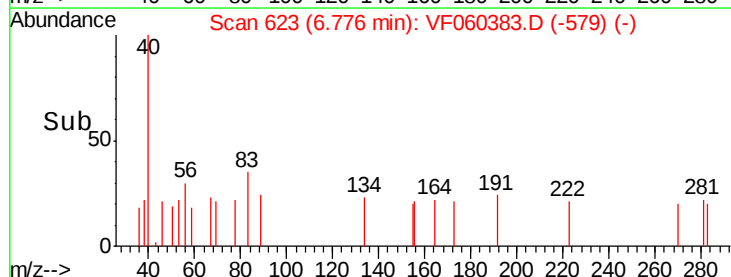
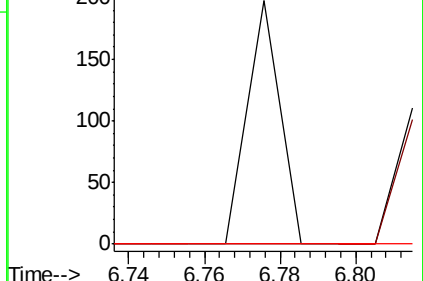
127 0.0 7.1 10.7#

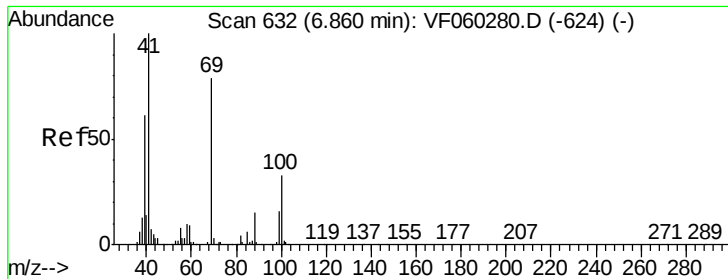


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 85.00 (84.70 to 85.70): VF0

Ion 127.00 (126.70 to 127.70): V





#48

Methyl methacrylate

Concen: 1823.512 ug/l

RT: 7.08 min Scan# 654

Delta R.T. 0.22 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampled :

HC-SOIL-4

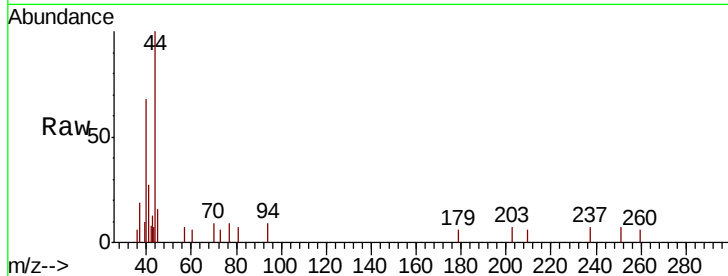
Tot Ion: 41 Resp: 488

Ion Ratio Lower Upper

41 100

69 0.0 62.6 94.0#

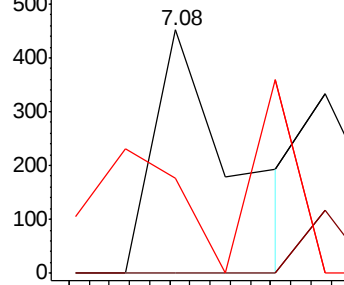
39 38.9 49.1 73.7#



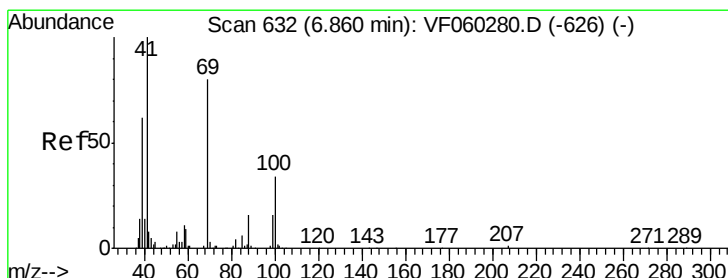
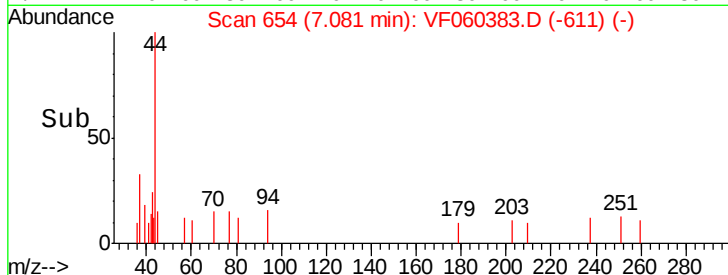
Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



Time-->



#49

1,4-Dioxane

Concen: 70267.548 ug/l

RT: 7.06 min Scan# 652

Delta R.T. 0.20 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

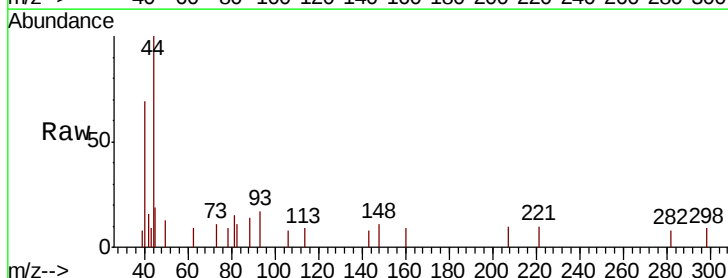
Tgt Ion: 88 Resp: 168

Ion Ratio Lower Upper

88 100

43 67.0 40.2 60.4#

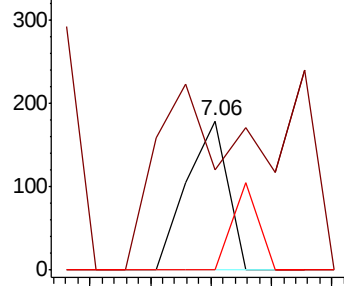
58 0.0 56.7 85.1#



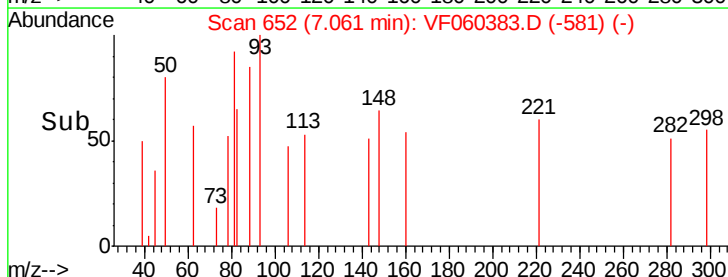
Abundance Ion 88.00 (87.70 to 88.70): VF0

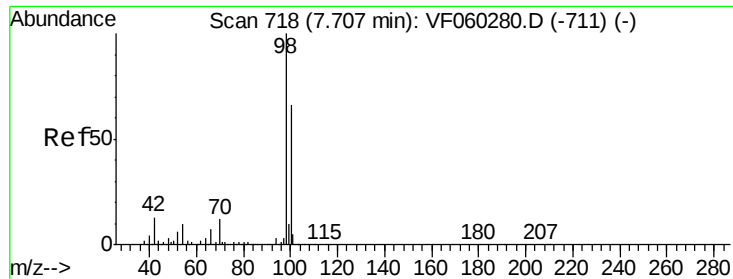
Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



Time-->





#50

Toluene-d8

Concen: 47.384 ug/l

RT: 8.00 min Scan# 747

Delta R.T. 0.29 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

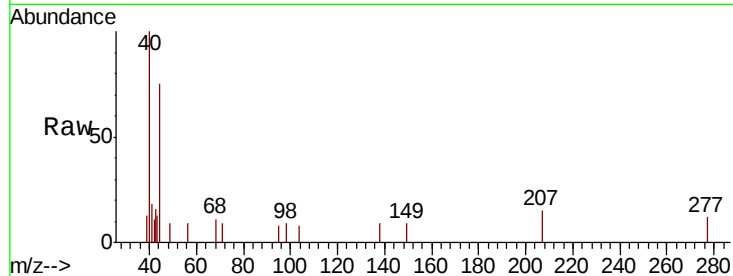
HC-SOIL-4

Tot Ion: 98 Resp: 66

Ion Ratio Lower Upper

98 100

100 0.0 53.0 79.6#



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

8.00

120

100

80

60

40

20

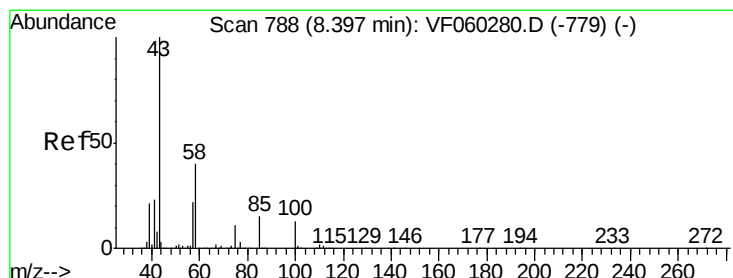
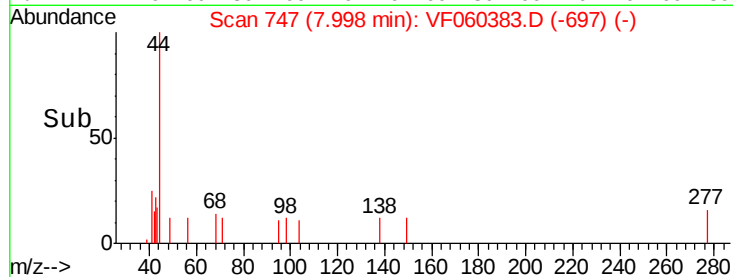
0

7.96

7.98

8.00

8.02



#51

4-Methyl-2-Pentanone

Concen: 1511.065 ug/l

RT: 8.70 min Scan# 818

Delta R.T. 0.30 min

Lab File: VF060383.D

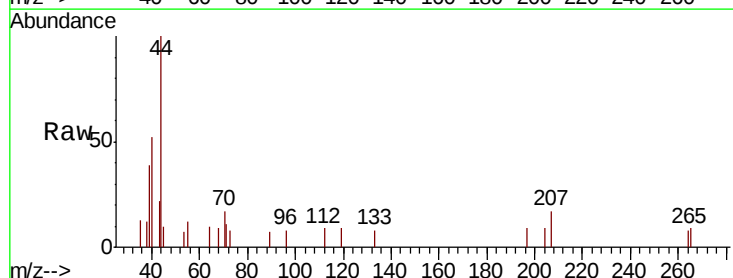
Acq: 28 Sep 2018 22:41

Tgt Ion: 43 Resp: 444

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.70

300

200

100

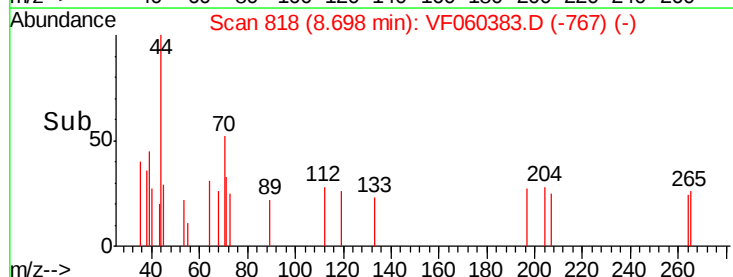
0

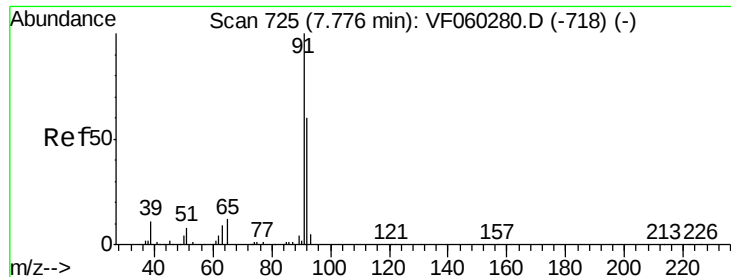
8.66

8.68

8.70

8.72





#52

Toluene

Concen: 230.070 ug/l

RT: 8.07 min Scan# 754

Delta R.T. 0.29 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

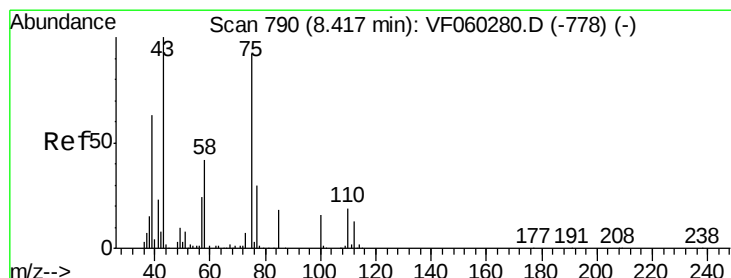
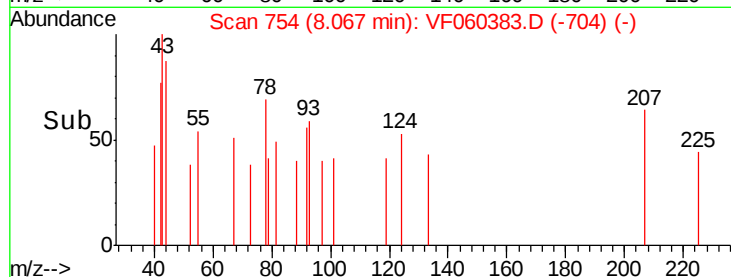
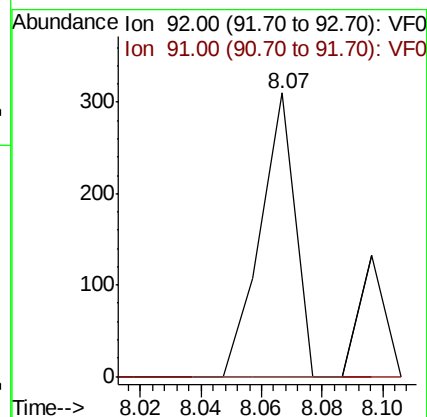
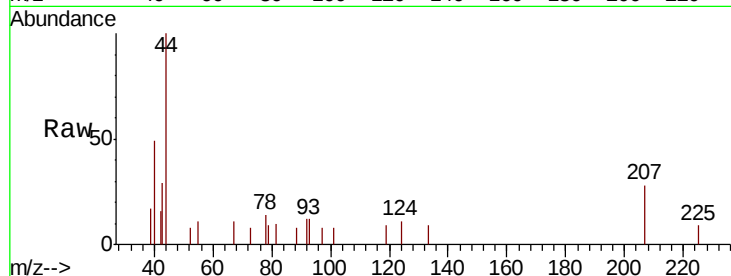
HC-SOIL-4

Tot Ion: 92 Resp: 247

Ion Ratio Lower Upper

92 100

91 0.0 133.3 199.9#



#53

t-1,3-Dichloropropene

Concen: 146.248 ug/l

RT: 8.75 min Scan# 823

Delta R.T. 0.33 min

Lab File: VF060383.D

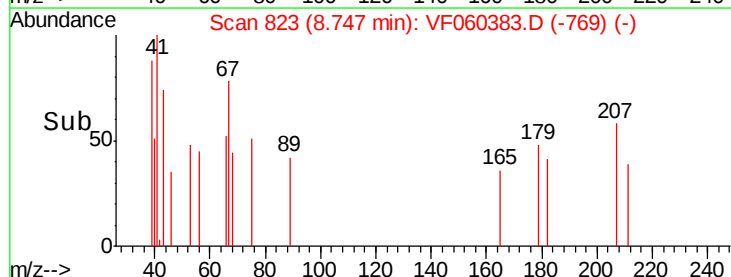
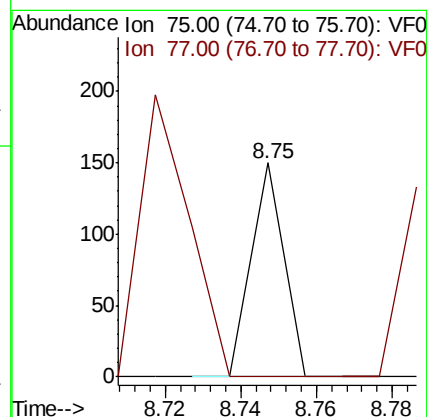
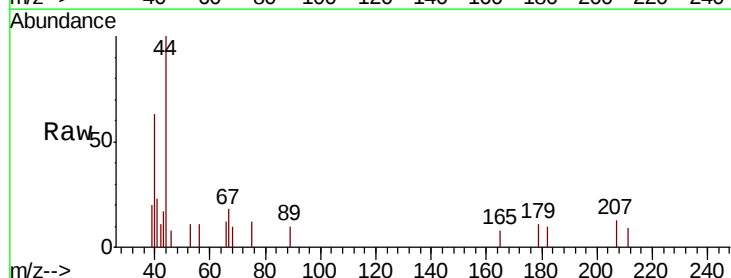
Acq: 28 Sep 2018 22:41

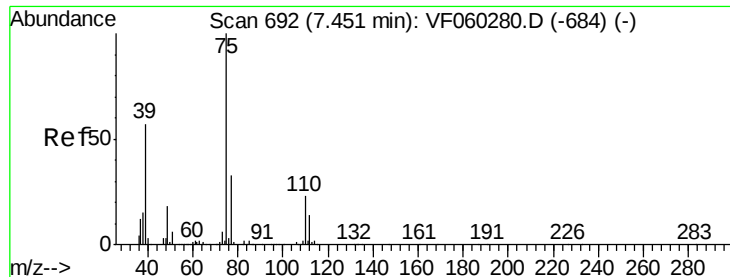
Tgt Ion: 75 Resp: 89

Ion Ratio Lower Upper

75 100

77 0.0 25.9 38.9#





#54

cis-1,3-Dichloropropene

Concen: 91.307 ug/l

RT: 7.70 min Scan# 717

Delta R.T. 0.25 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4

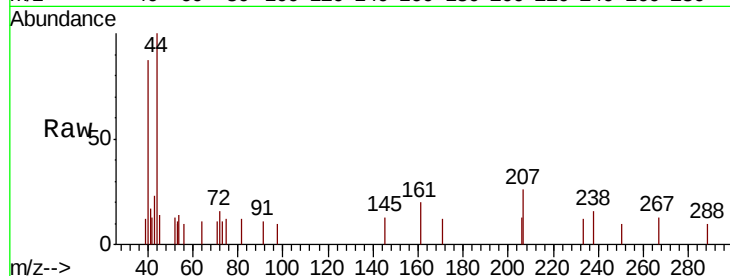
Tot Ion: 75 Resp: 70

Ion Ratio Lower Upper

75 100

77 0.0 26.3 39.5#

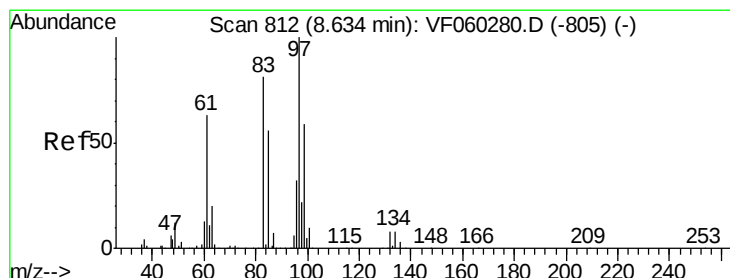
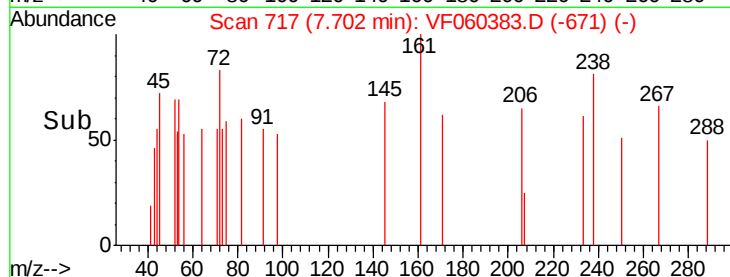
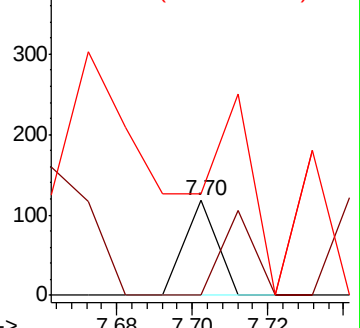
39 106.8 46.1 69.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 77.00 (76.70 to 77.70): VF0

Ion 39.00 (38.70 to 39.70): VF0



#55

1,1,2-Trichloroethane

Concen: 374.415 ug/l

RT: 8.88 min Scan# 836

Delta R.T. 0.24 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Tgt Ion: 97 Resp: 122

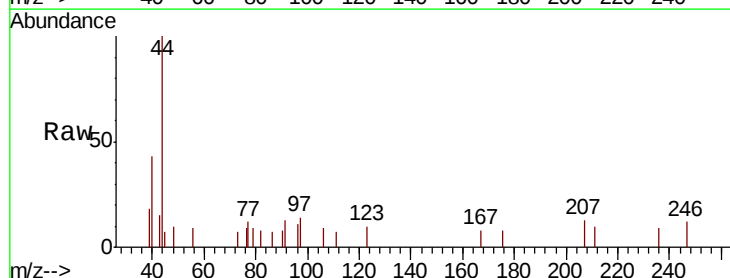
Ion Ratio Lower Upper

97 100

83 0.0 65.3 97.9#

85 0.0 44.7 67.1#

99 0.0 47.0 70.4#

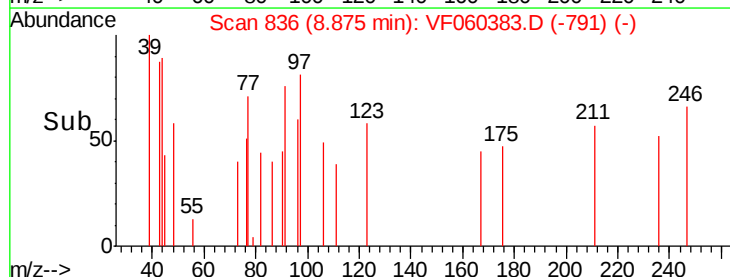
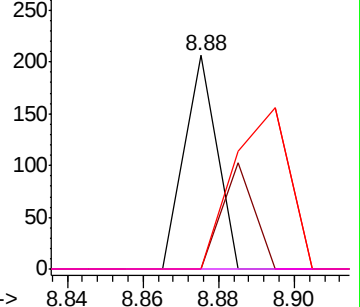


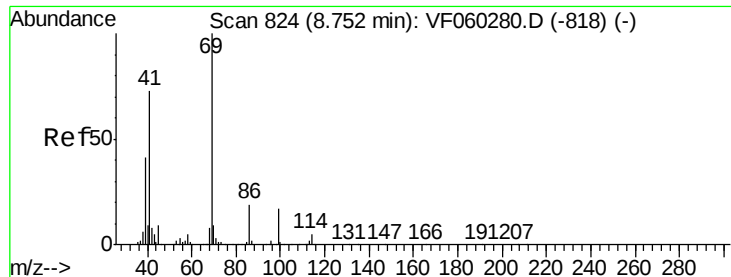
Abundance Ion 97.00 (96.70 to 97.70): VF0

Ion 82.95 (82.65 to 83.65): VF0

Ion 84.95 (84.65 to 85.65): VF0

Ion 98.95 (98.65 to 99.65): VF0





#56

Ethyl methacrylate

Concen: 447.236 ug/l

RT: 9.05 min Scan# 854

Delta R.T. 0.30 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleID :

HC-SOIL-4

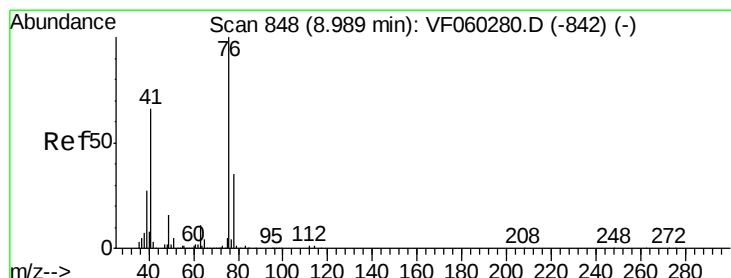
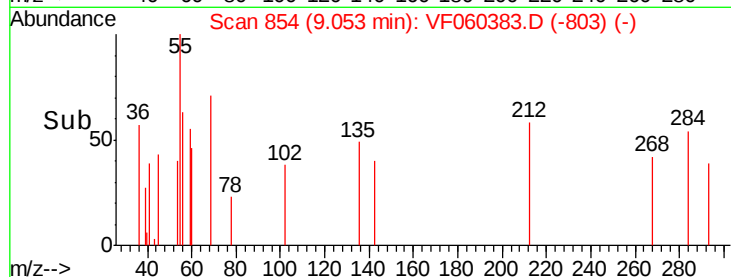
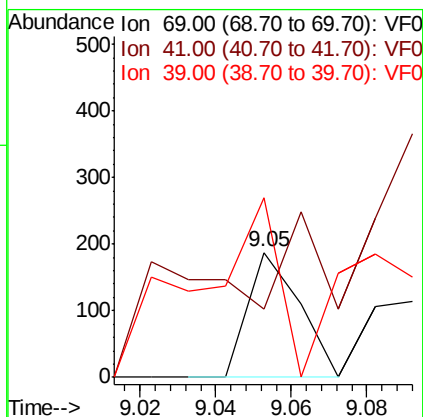
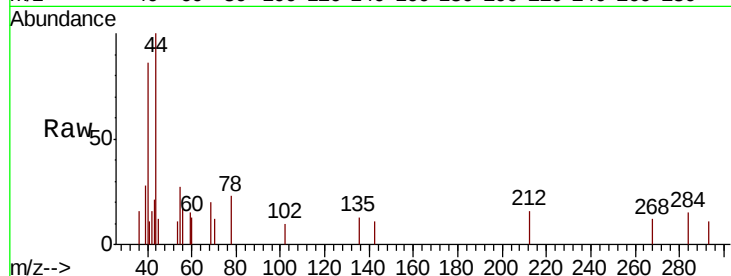
Tot Ion: 69 Resp: 176

Ion Ratio Lower Upper

69 100

41 54.3 59.4 89.2#

39 143.6 33.5 50.3#



#57

1,3-Dichloropropane

Concen: 202.031 ug/l

RT: 9.27 min Scan# 876

Delta R.T. 0.28 min

Lab File: VF060383.D

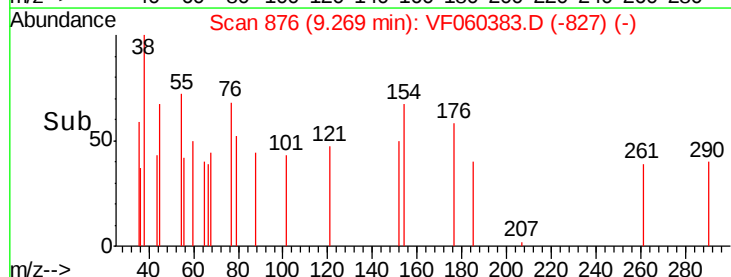
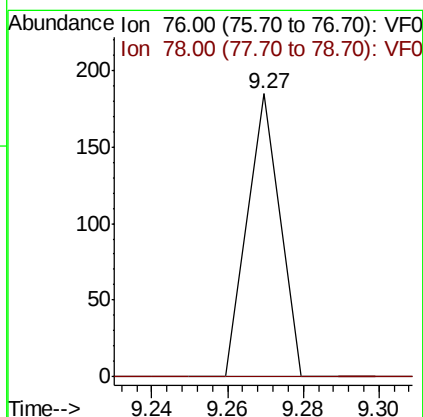
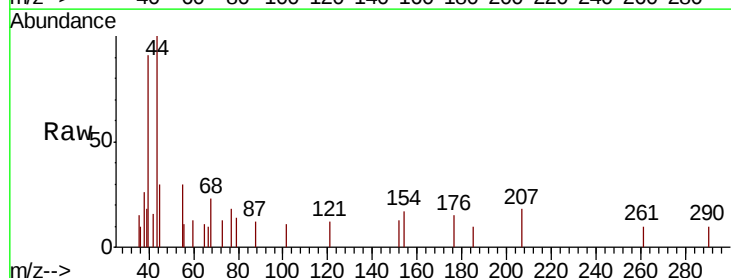
Acq: 28 Sep 2018 22:41

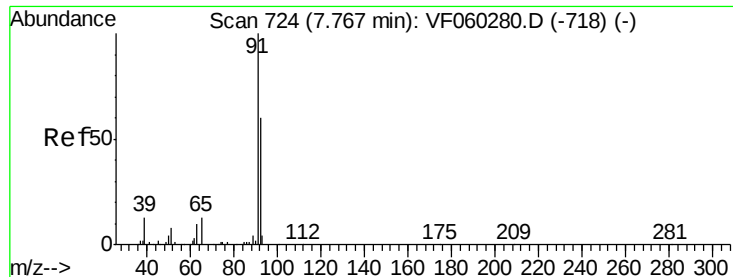
Tgt Ion: 76 Resp: 109

Ion Ratio Lower Upper

76 100

78 0.0 28.2 42.2#

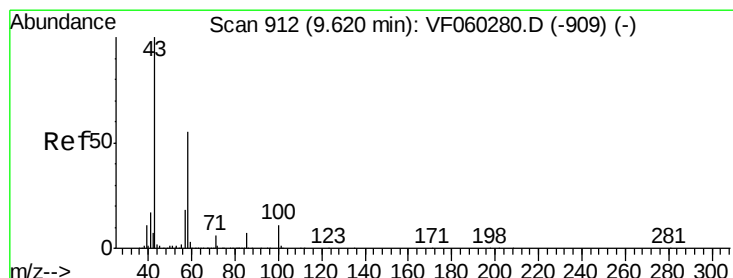
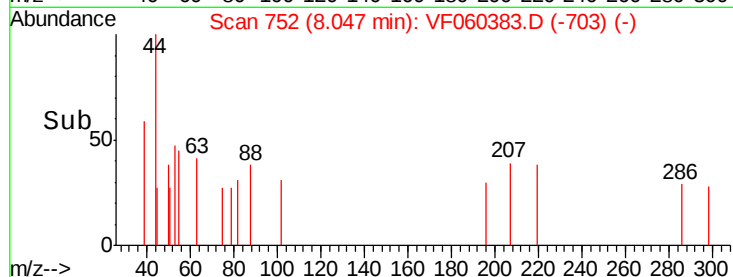
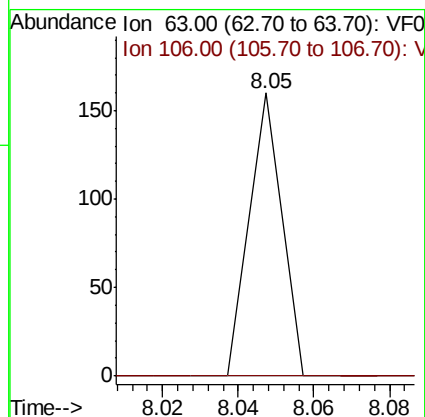
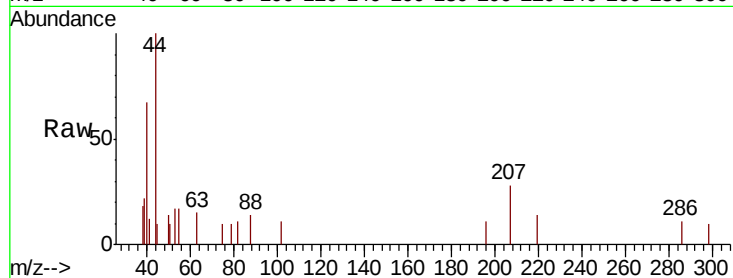




#58
 2-Chloroethyl Vinyl ether
 Concen: 2730.737 ug/l
 RT: 8.05 min Scan# 752
 Delta R.T. 0.28 min
 Lab File: VF060383.D
 Acq: 28 Sep 2018 22:41

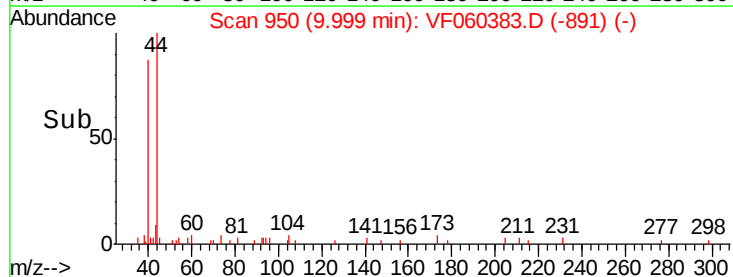
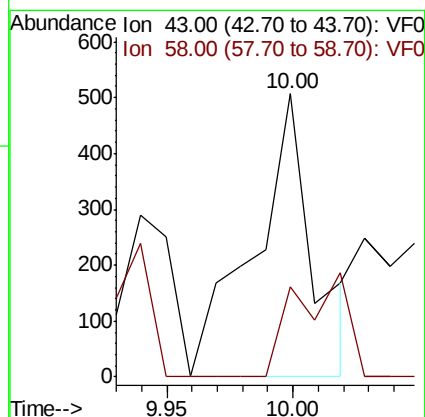
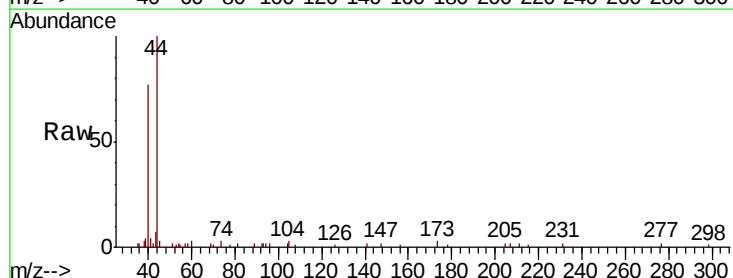
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-4

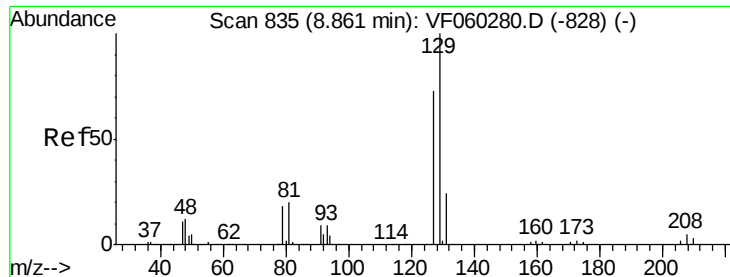
Tot Ion: 63 Resp: 95
 Ion Ratio Lower Upper
 63 100
 106 0.0 0.0 0.0



#59
 2-Hexanone
 Concen: 3957.730 ug/l
 RT: 10.00 min Scan# 950
 Delta R.T. 0.38 min
 Lab File: VF060383.D
 Acq: 28 Sep 2018 22:41

Tgt Ion: 43 Resp: 828
 Ion Ratio Lower Upper
 43 100
 58 32.0 25.9 77.6





#60

Dibromochloromethane

Concen: 144.136 ug/l

RT: 9.20 min Scan# 869

Delta R.T. 0.34 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

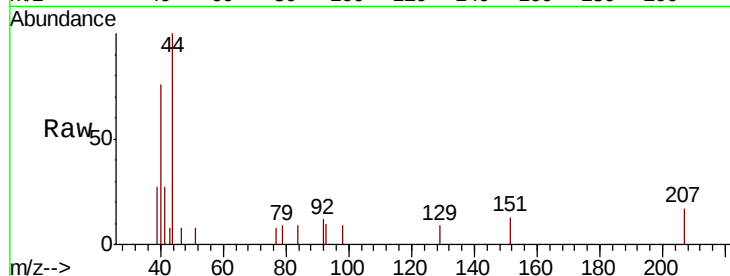
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-4

Tot Ion:129 Resp: 70

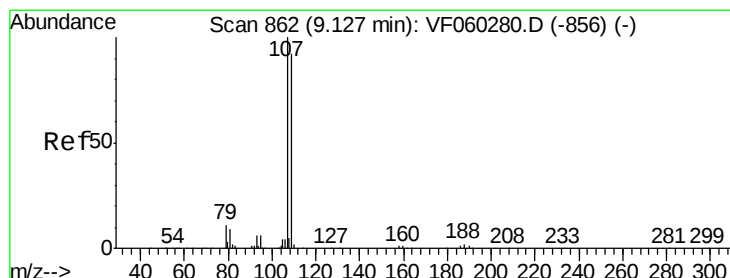
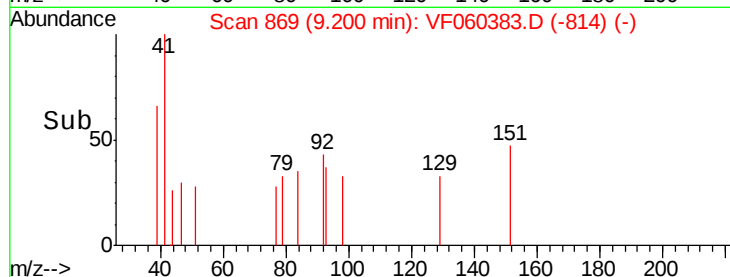
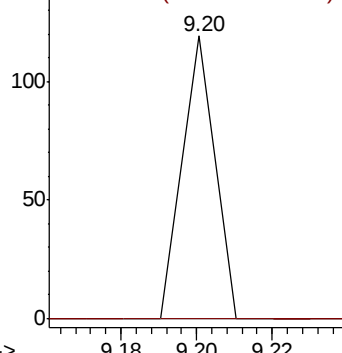
Ion Ratio Lower Upper

129 100

127 0.0 36.6 109.8#



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



#61

1,2-Dibromoethane

Concen: 170.871 ug/l

RT: 9.35 min Scan# 884

Delta R.T. 0.22 min

Lab File: VF060383.D

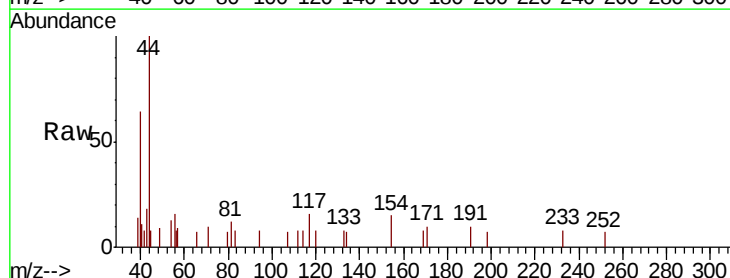
Acq: 28 Sep 2018 22:41

Tgt Ion:107 Resp: 62

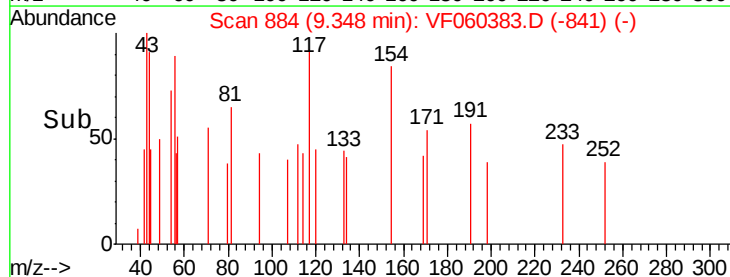
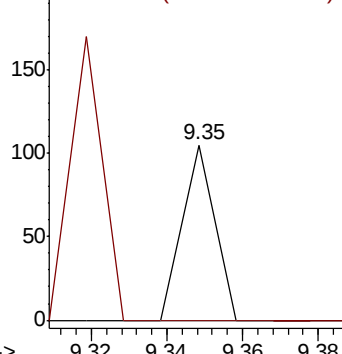
Ion Ratio Lower Upper

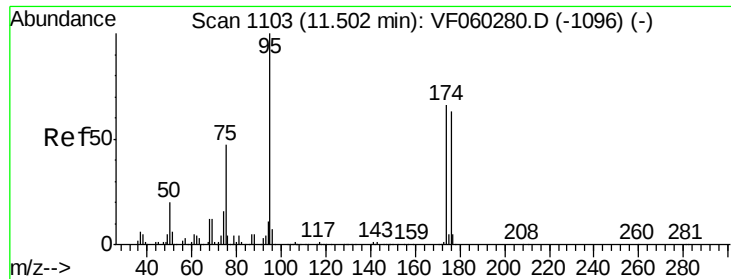
107 100

109 0.0 73.2 109.8#



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V





#62

4-Bromofluorobenzene

Concen: 184.355 ug/l

RT: 11.89 min Scan# 1142

Delta R.T. 0.39 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4

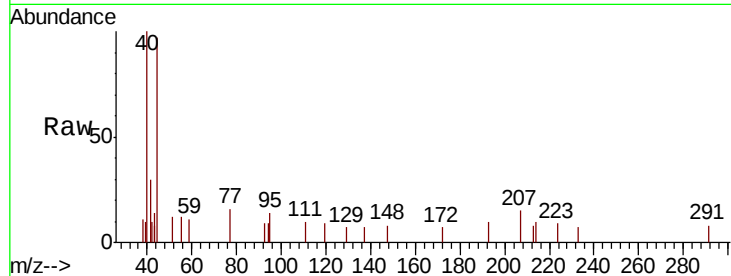
Tot Ion: 95 Resp: 111

Ion Ratio Lower Upper

95 100

174 0.0 0.0 131.2

176 0.0 0.0 126.6



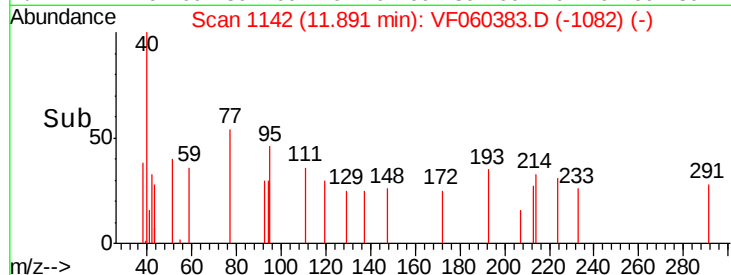
Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

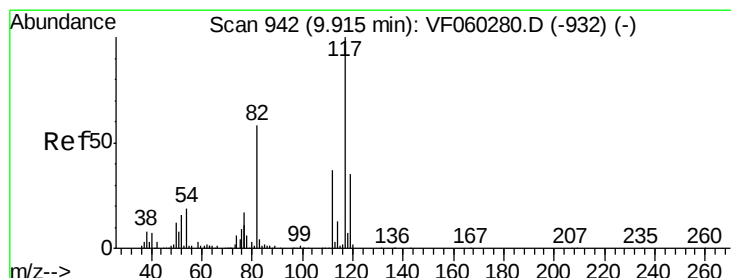
Ion 176.00 (175.70 to 176.70): V

11.89

11.86 11.88 11.90 11.92



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.29 min Scan# 980

Delta R.T. 0.38 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

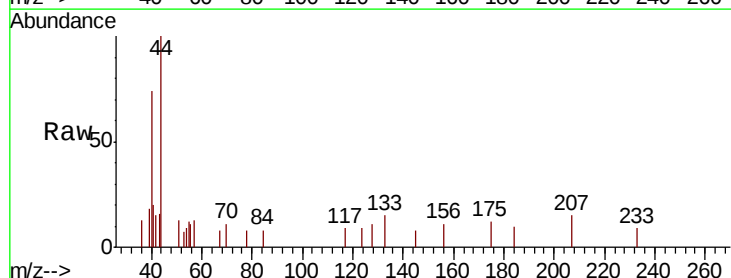
Tgt Ion: 117 Resp: 73

Ion Ratio Lower Upper

117 100

82 0.0 46.2 69.2#

119 0.0 27.8 41.6#



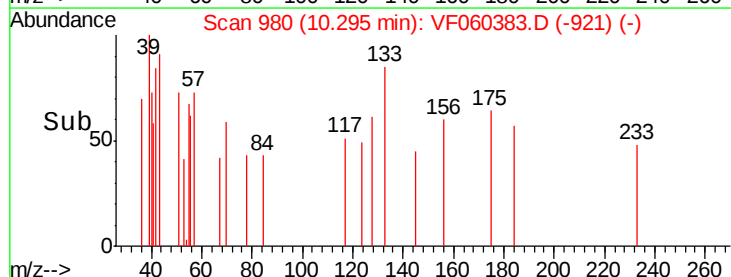
Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

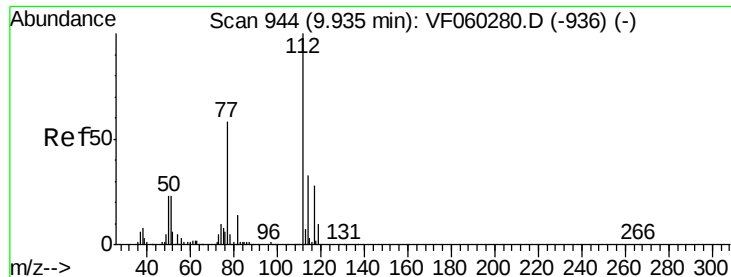
Ion 119.00 (118.70 to 119.70): V

10.29

10.26 10.28 10.30 10.32



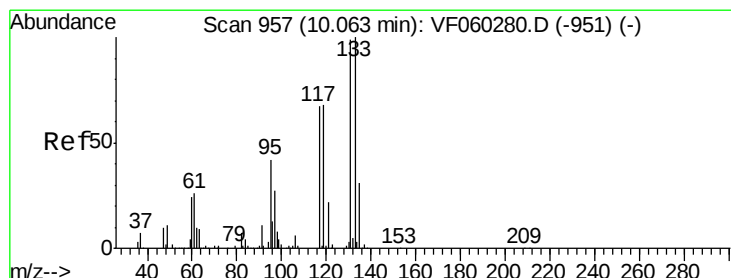
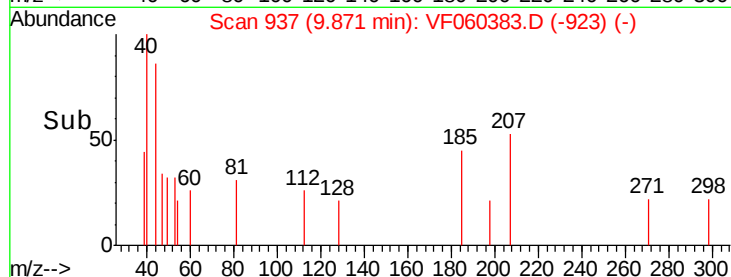
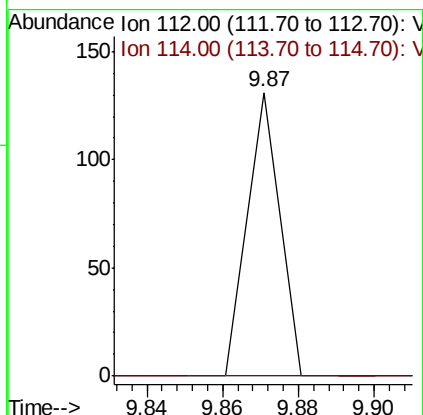
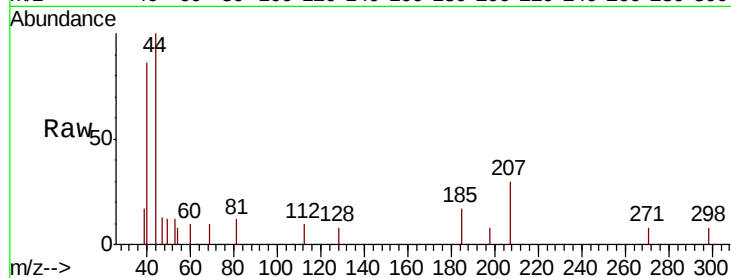
Time-->



#65
Chlorobenzene
Concen: 46.540 ug/l
RT: 9.87 min Scan# 937
Delta R.T. -0.06 min
Lab File: VF060383.D
Acq: 28 Sep 2018 22:41

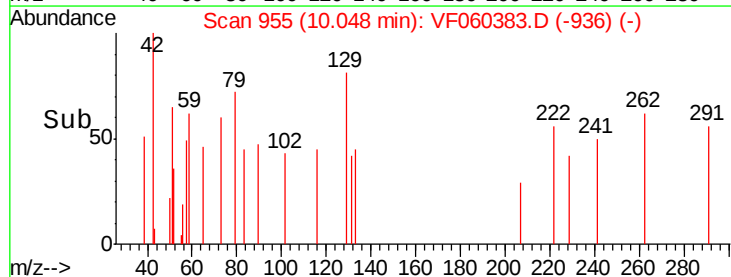
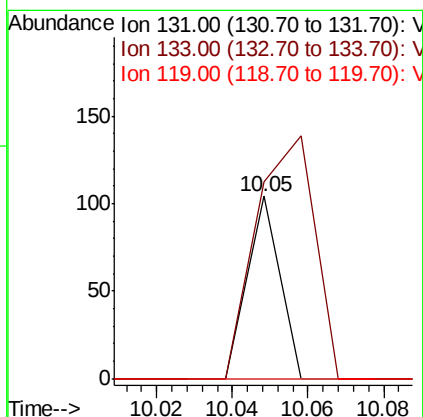
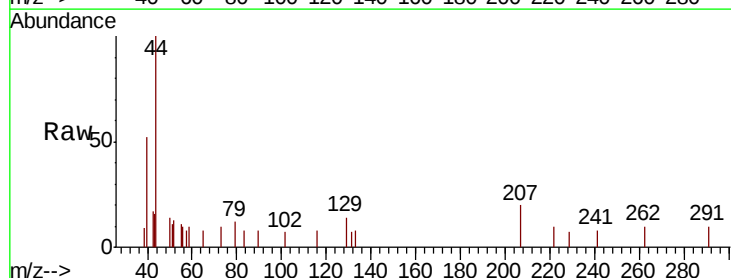
Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-4

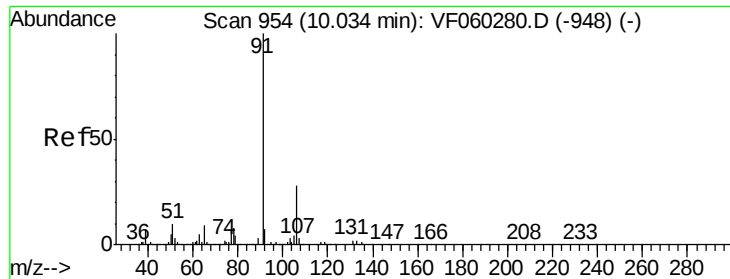
Tot Ion:112 Resp: 77
Ion Ratio Lower Upper
112 100
114 0.0 26.6 40.0#



#66
1,1,1,2-Tetrachloroethane
Concen: 90.298 ug/l
RT: 10.05 min Scan# 955
Delta R.T. -0.02 min
Lab File: VF060383.D
Acq: 28 Sep 2018 22:41

Tgt Ion:131 Resp: 62
Ion Ratio Lower Upper
131 100
133 107.7 50.4 151.2
119 0.0 34.8 104.3#





#67

Ethyl Benzene

Concen: 47.073 ug/l

RT: 10.01 min Scan# 951

Delta R.T. -0.02 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampled :

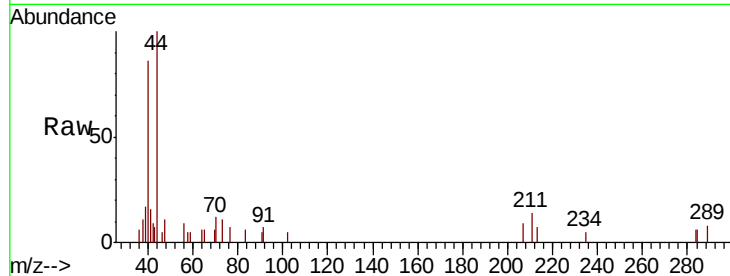
HC-SOIL-4

Tot Ion: 91 Resp: 144

Ion Ratio Lower Upper

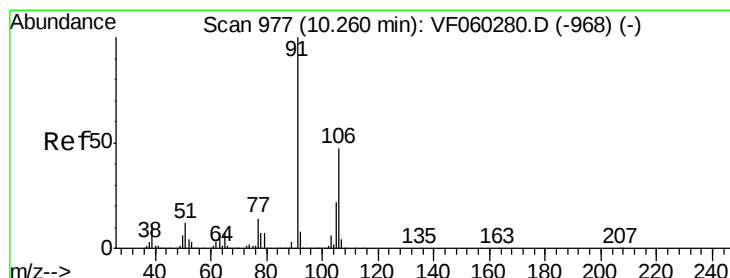
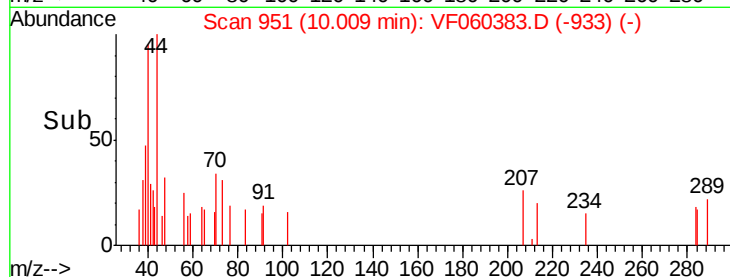
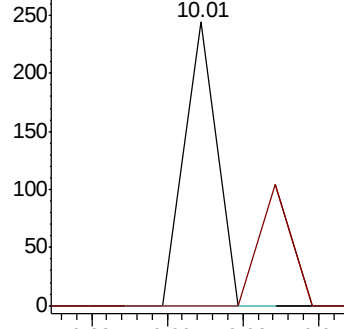
91 100

106 0.0 22.7 34.1#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 74.748 ug/l

RT: 10.37 min Scan# 988

Delta R.T. 0.11 min

Lab File: VF060383.D

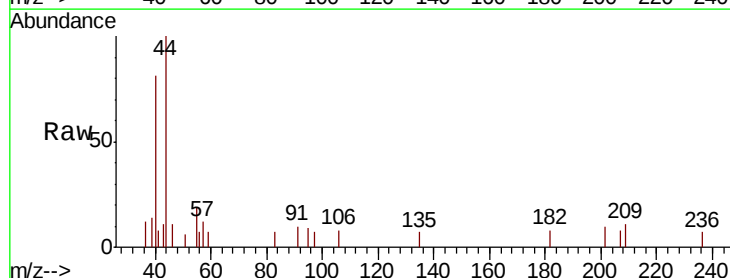
Acq: 28 Sep 2018 22:41

Tgt Ion: 106 Resp: 79

Ion Ratio Lower Upper

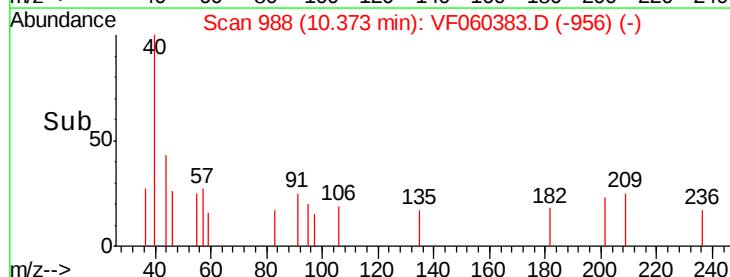
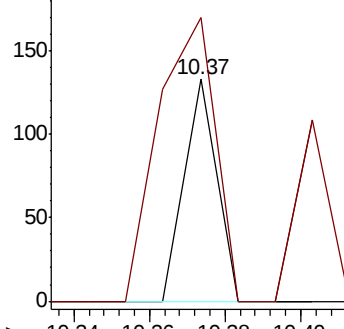
106 100

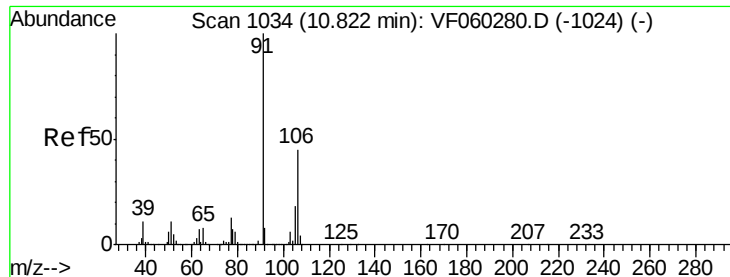
91 127.8 172.3 258.5#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

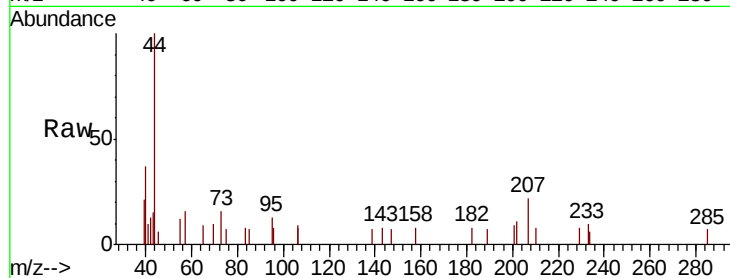




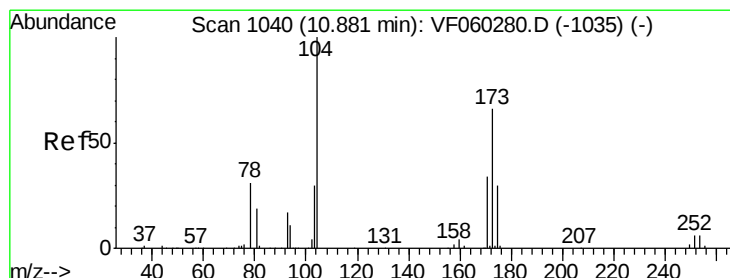
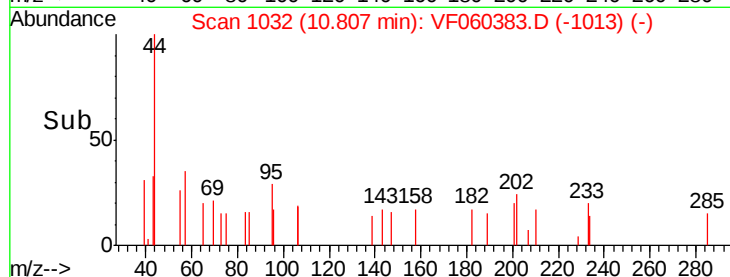
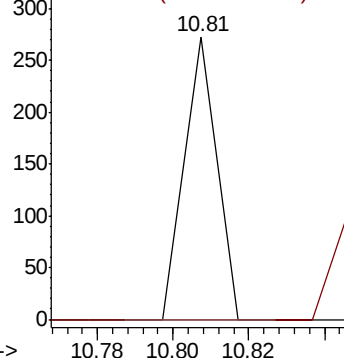
#69
o-Xylene
Concen: 135.816 ug/l
RT: 10.81 min Scan# 1032
Delta R.T. -0.02 min
Lab File: VF060383.D
Acq: 28 Sep 2018 22:41

Instrument :
MSVOA_F
ClientSampled :
HC-SOIL-4

Tot Ion:106 Resp: 161
Ion Ratio Lower Upper
106 100
91 0.0 110.9 332.6#

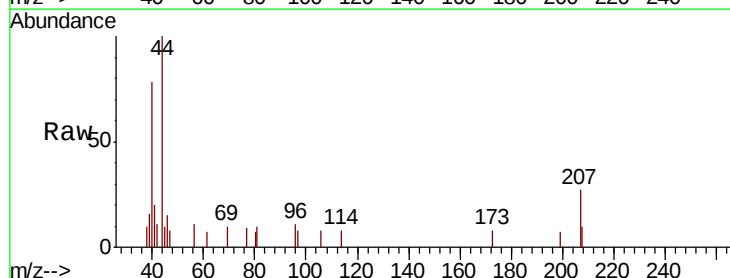


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

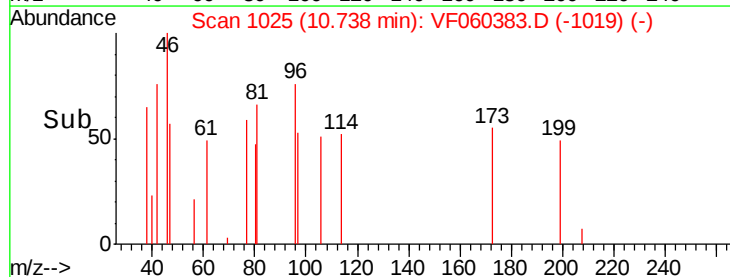
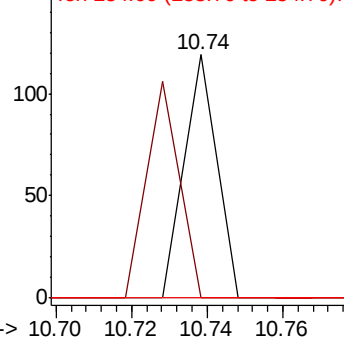


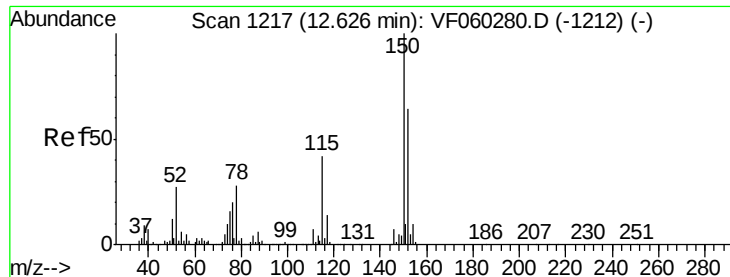
#71
Bromoform
Concen: 185.633 ug/l
RT: 10.74 min Scan# 1025
Delta R.T. -0.14 min
Lab File: VF060383.D
Acq: 28 Sep 2018 22:41

Tgt Ion:173 Resp: 70
Ion Ratio Lower Upper
173 100
175 0.0 22.3 66.9#
254 0.0 0.0 0.0



Abundance Ion 173.00 (172.70 to 173.70): V
Ion 175.00 (174.70 to 175.70): V
Ion 254.00 (253.70 to 254.70): V



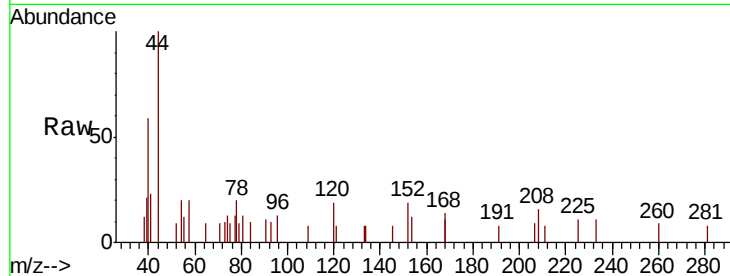


#72

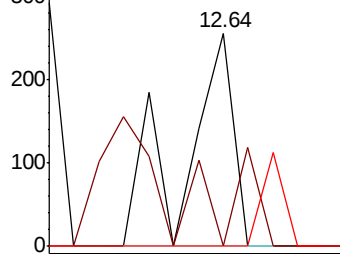
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.64 min Scan# 1218
Delta R.T. 0.01 min
Lab File: VF060383.D
Acq: 28 Sep 2018 22:41

Instrument :
MSVOA_F
ClientSampleId :
HC-SOIL-4

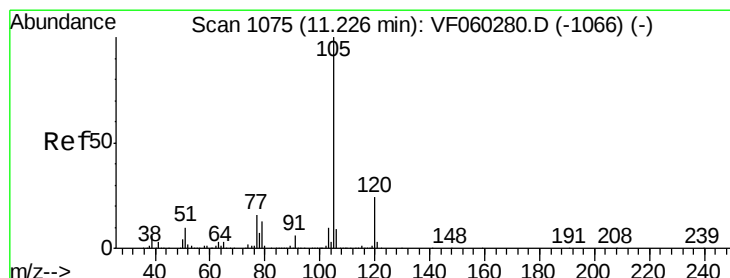
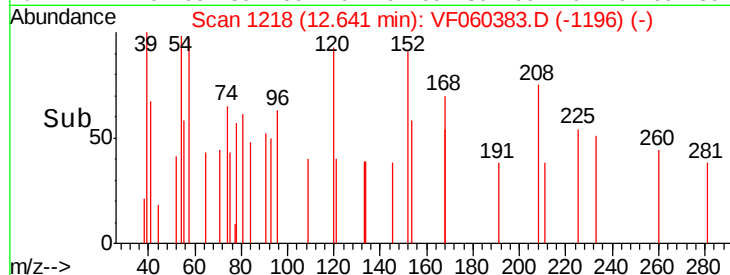
Tot Ion:152 Resp: 344
Ion Ratio Lower Upper
152 100
115 0.0 32.6 97.8#
150 0.0 0.0 314.2



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



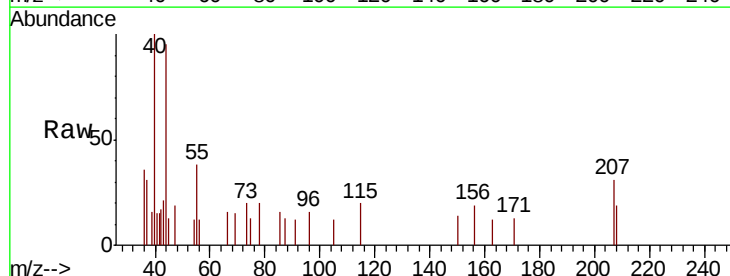
Time-->



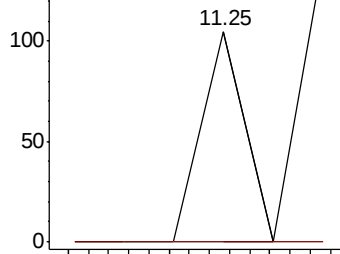
#73

Isopropylbenzene
Concen: 2.008 ug/l
RT: 11.25 min Scan# 1077
Delta R.T. 0.02 min
Lab File: VF060383.D
Acq: 28 Sep 2018 22:41

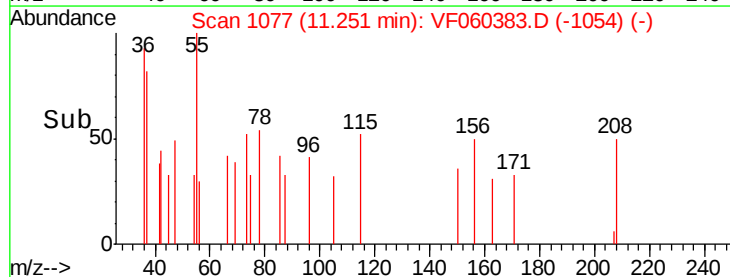
Tgt Ion:105 Resp: 62
Ion Ratio Lower Upper
105 100
120 0.0 12.2 36.6#

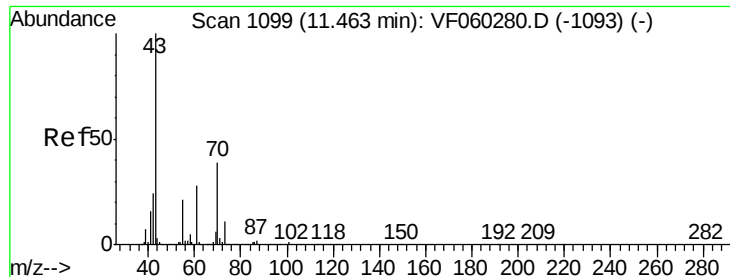


Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



Time-->





#74

N-amvl acetate

Concen: 51.174 ug/l

RT: 11.48 min Scan# 1100

Delta R.T. 0.01 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4

Tot Ion: 43 Resp: 337

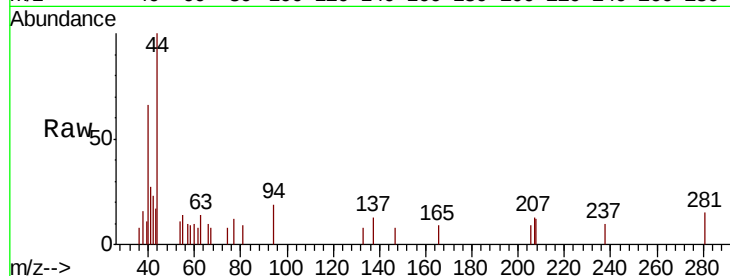
Ion Ratio Lower Upper

43 100

70 0.0 31.4 47.2#

55 78.8 16.8 25.2#

61 44.7 22.6 34.0#

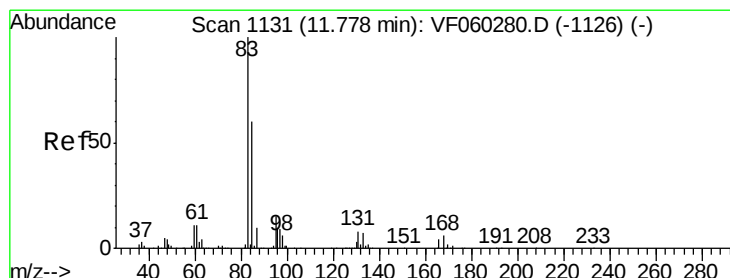
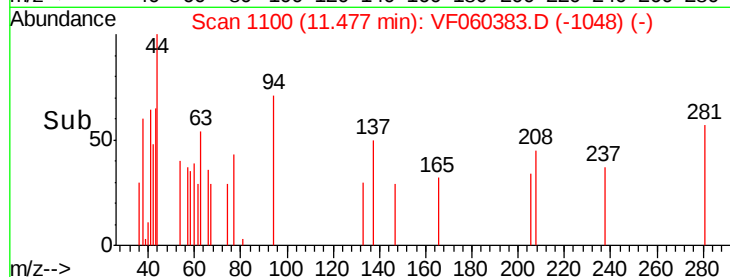
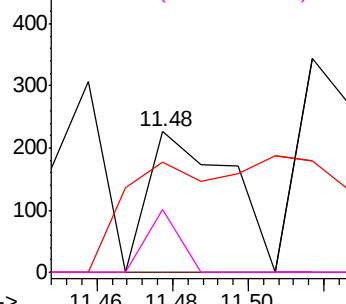


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0



#75

1,1,2,2-Tetrachloroethane

Concen: 12.607 ug/l

RT: 11.79 min Scan# 1132

Delta R.T. 0.01 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

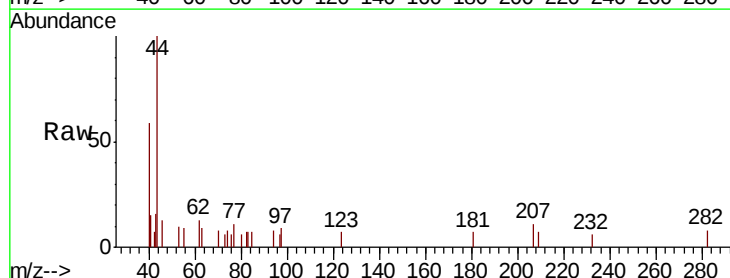
Tgt Ion: 83 Resp: 69

Ion Ratio Lower Upper

83 100

131 0.0 4.2 12.4#

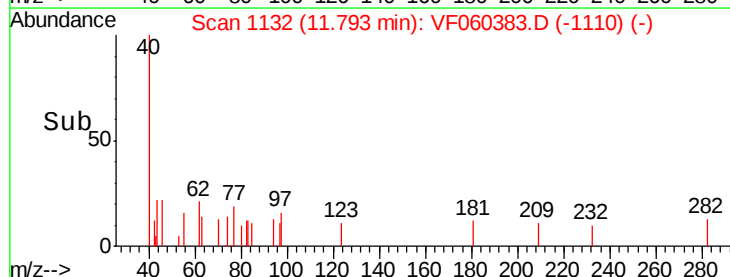
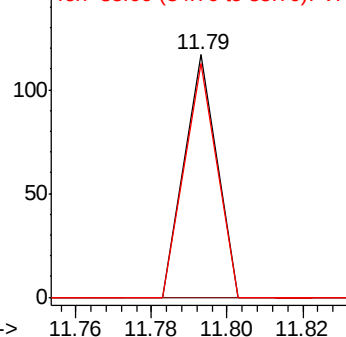
85 96.6 30.1 90.5#

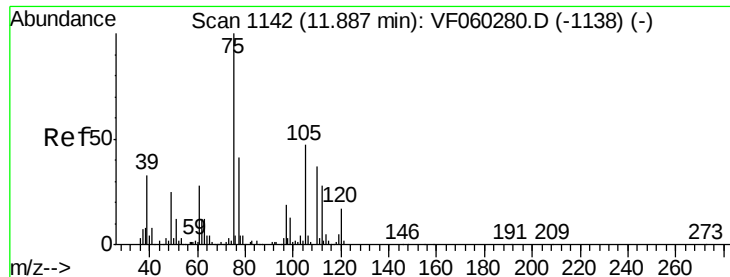


Abundance Ion 83.00 (82.70 to 83.70): VF0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VF0





#76

1,2,3-Trichloropropane

Concen: 21.691 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.02 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampled :

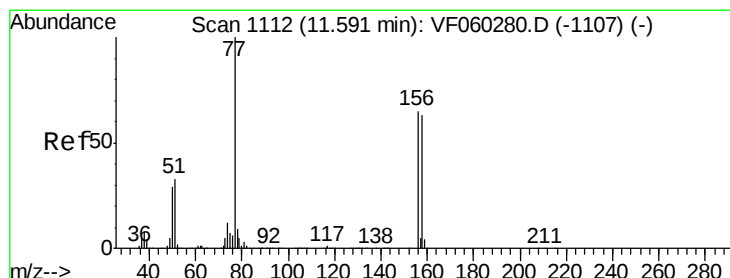
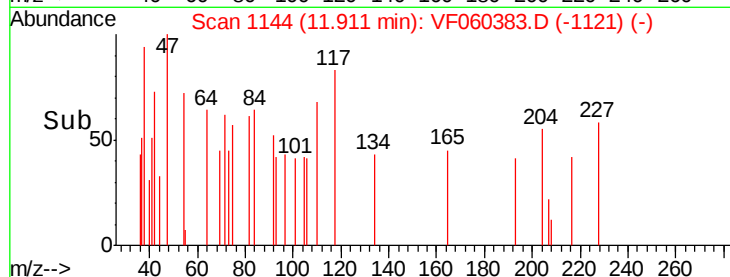
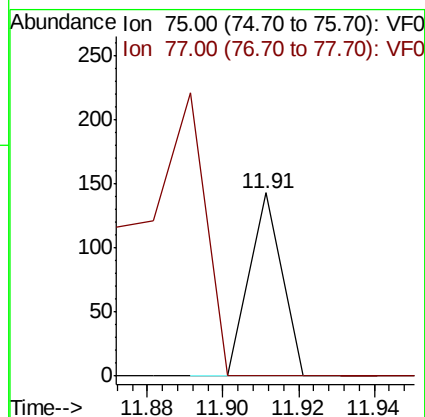
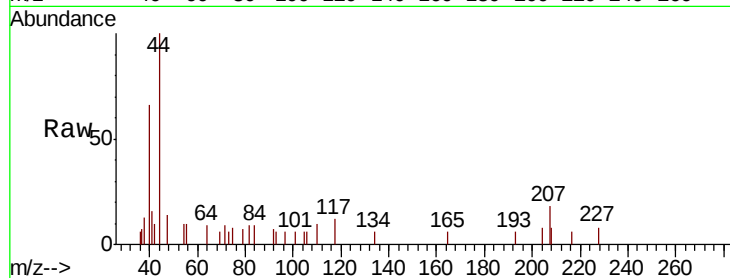
HC-SOIL-4

Tot Ion: 75 Resp: 85

Ion Ratio Lower Upper

75 100

77 0.0 20.5 61.5#



#77

Bromobenzene

Concen: 116.898 ug/l

RT: 11.59 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

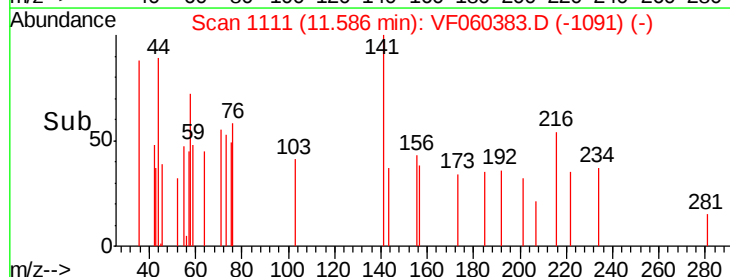
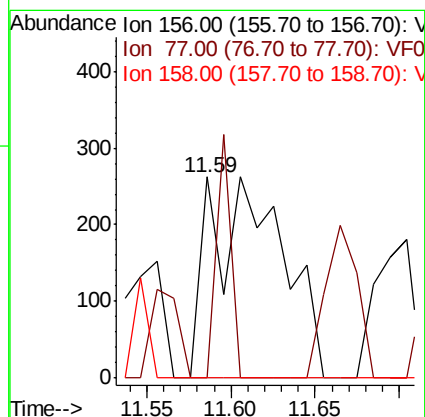
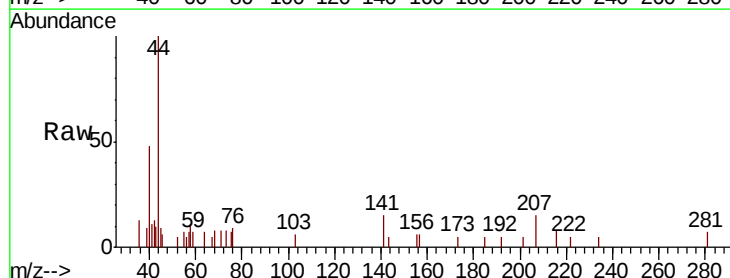
Tgt Ion: 156 Resp: 778

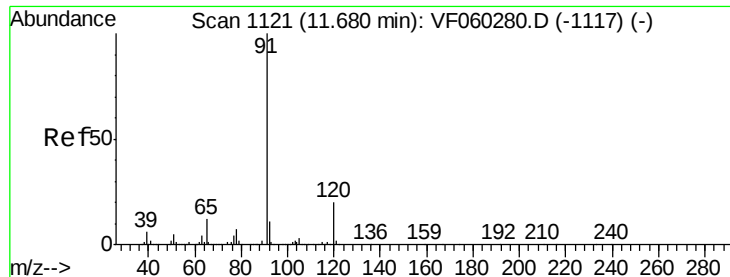
Ion Ratio Lower Upper

156 100

77 0.0 77.3 232.1#

158 0.0 48.4 145.2#





#78

n-propylbenzene

Concen: Below Cal

RT: 11.66 min Scan# 1119

Delta R.T. -0.01 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampled :

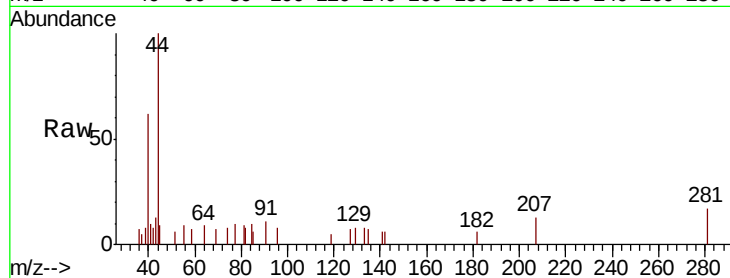
HC-SOIL-4

Tot Ion: 91 Resp: 120

Ion Ratio Lower Upper

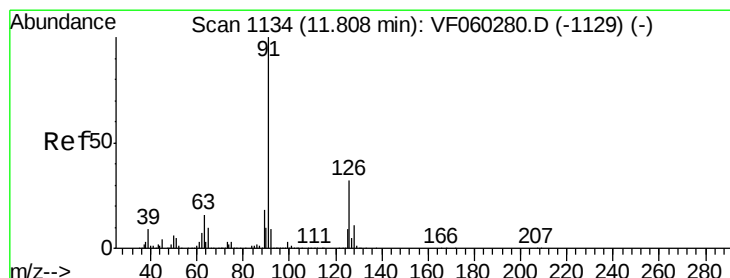
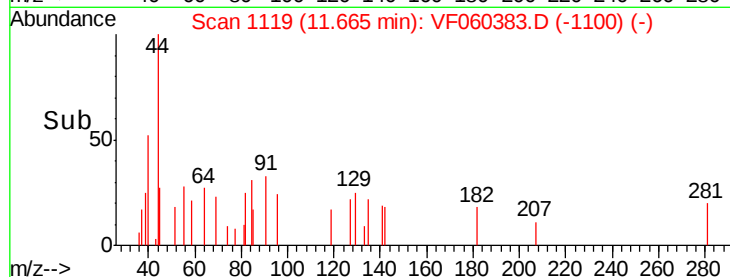
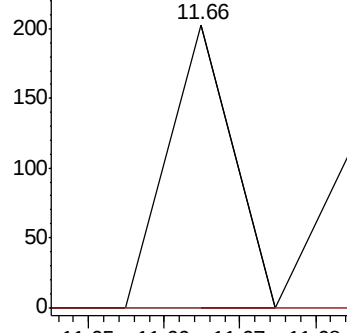
91 100

120 0.0 10.0 29.8#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 5.953 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. 0.01 min

Lab File: VF060383.D

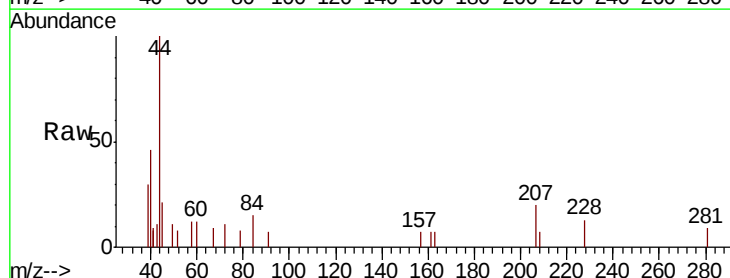
Acq: 28 Sep 2018 22:41

Tgt Ion: 91 Resp: 124

Ion Ratio Lower Upper

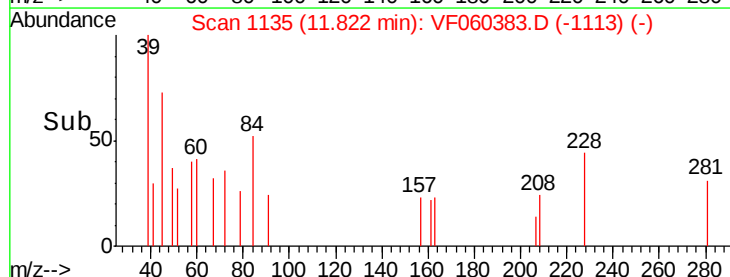
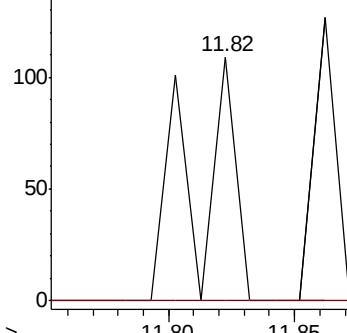
91 100

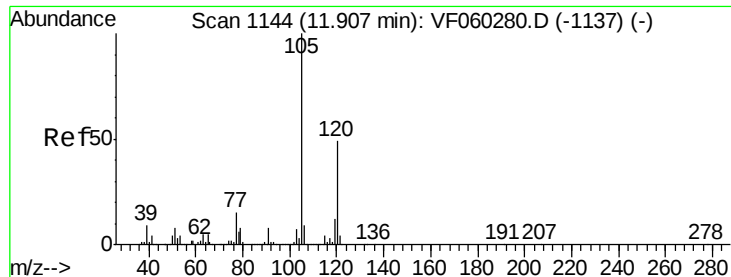
126 0.0 16.1 48.3#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V





#80

1,3,5-Trimethylbenzene

Concen: 10.620 ug/l

RT: 11.91 min Scan# 1144

Delta R.T. 0.00 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

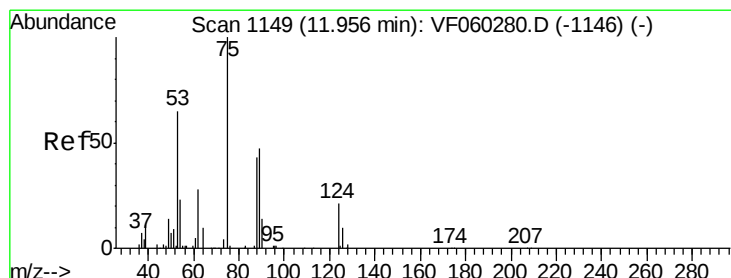
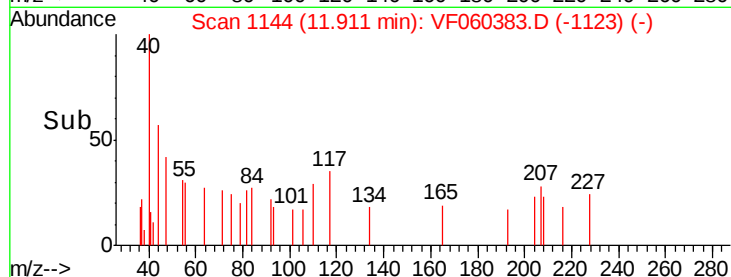
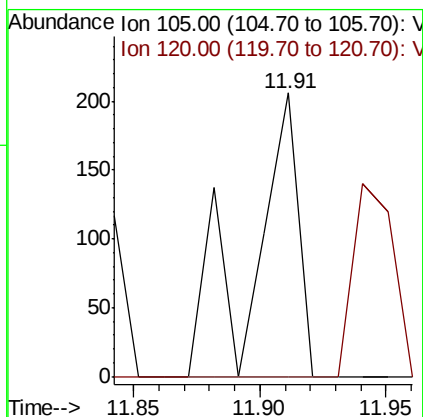
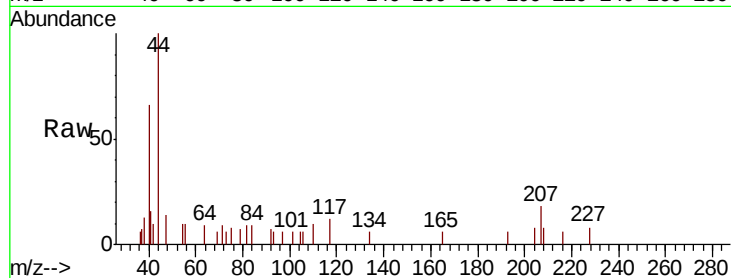
HC-SOIL-4

Tot Ion:105 Resp: 264

Ion Ratio Lower Upper

105 100

120 0.0 24.4 73.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 42.493 ug/l

RT: 11.96 min Scan# 1149

Delta R.T. 0.00 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

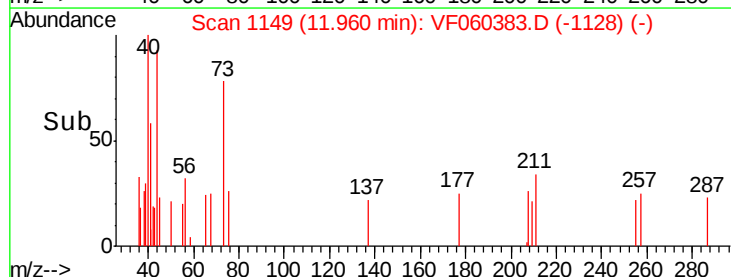
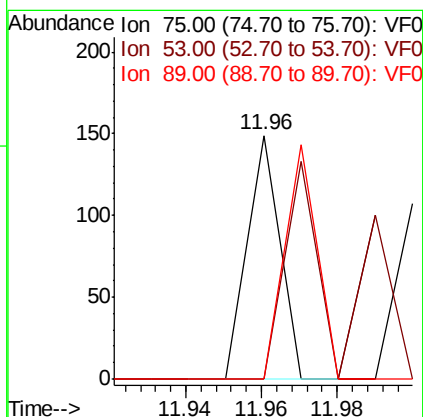
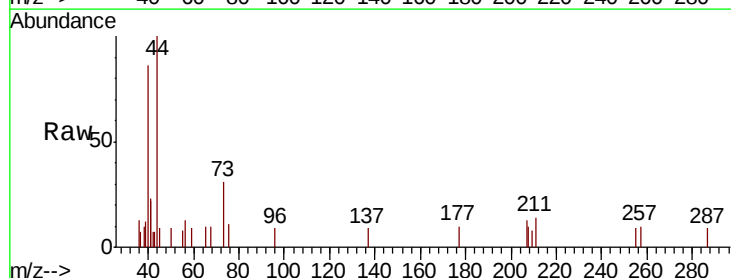
Tgt Ion: 75 Resp: 88

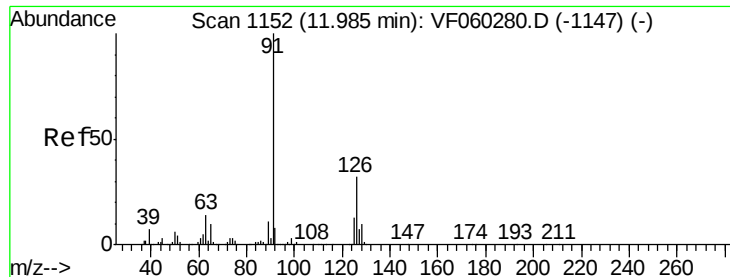
Ion Ratio Lower Upper

75 100

53 0.0 56.5 84.7#

89 0.0 40.6 60.8#





#82

4-Chlorotoluene

Concen: 2.913 ug/l

RT: 12.01 min Scan# 1154

Delta R.T. 0.02 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampled :

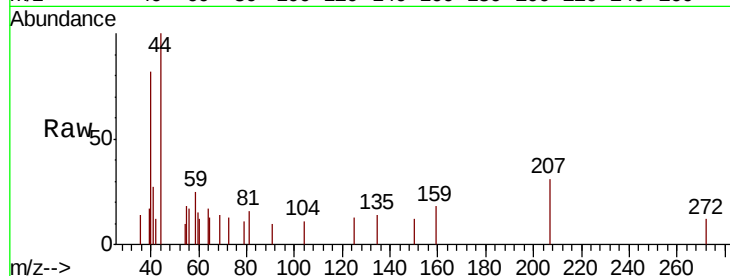
HC-SOIL-4

Tot Ion: 91 Resp: 61

Ion Ratio Lower Upper

91 100

126 0.0 16.1 48.2#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 126.00 (125.70 to 126.70): V

120

100

80

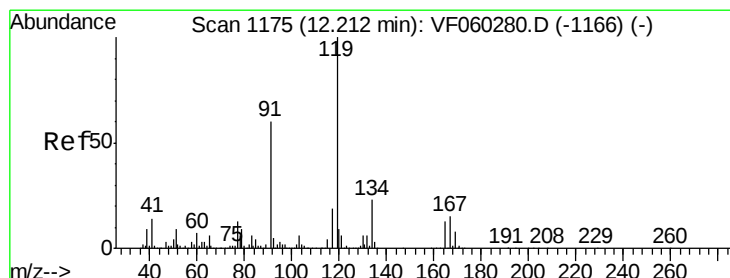
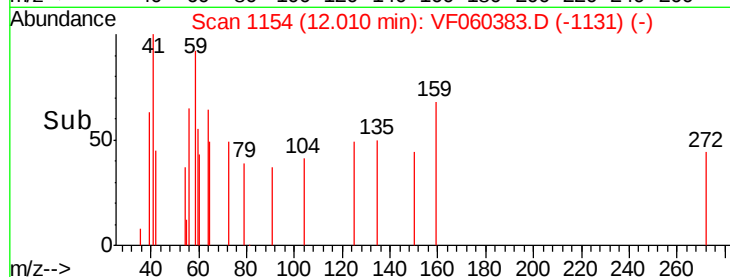
60

40

20

0

Time-->



#83

tert-Butylbenzene

Concen: 4.841 ug/l

RT: 12.22 min Scan# 1175

Delta R.T. 0.00 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

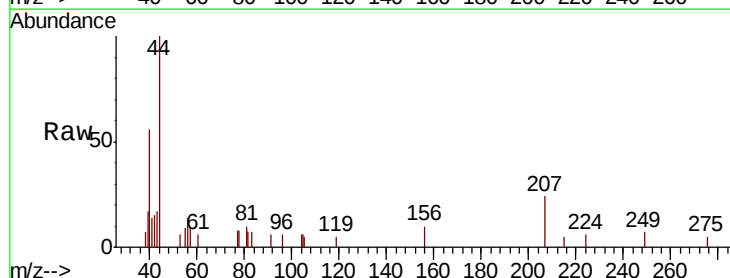
Tgt Ion: 119 Resp: 122

Ion Ratio Lower Upper

119 100

91 122.1 30.3 91.0#

134 0.0 11.6 34.8#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

200

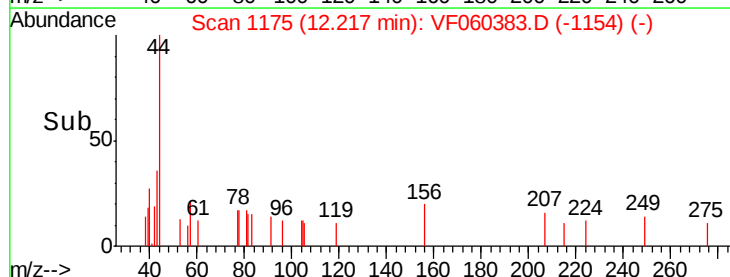
150

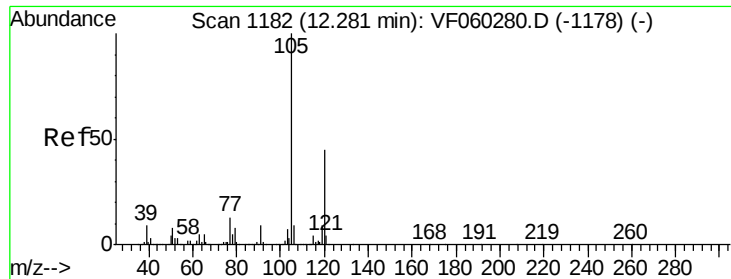
100

50

0

Time-->

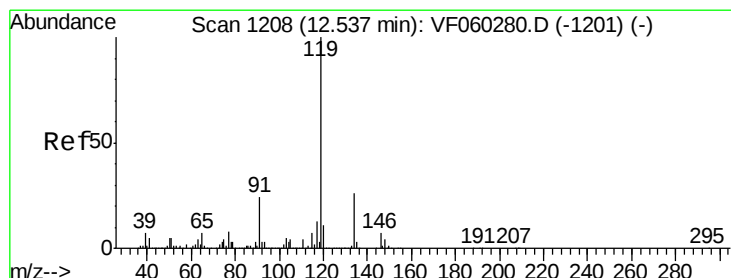
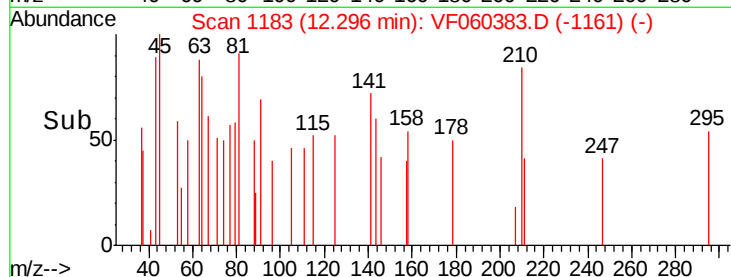
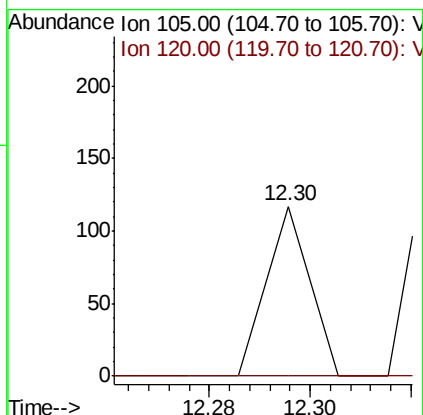
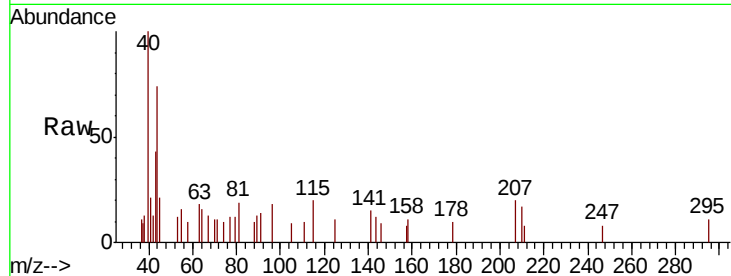




#84
 1,2,4-Trimethylbenzene
 Concen: 2.733 ug/l
 RT: 12.30 min Scan# 1183
 Delta R.T. 0.01 min
 Lab File: VF060383.D
 Acq: 28 Sep 2018 22:41

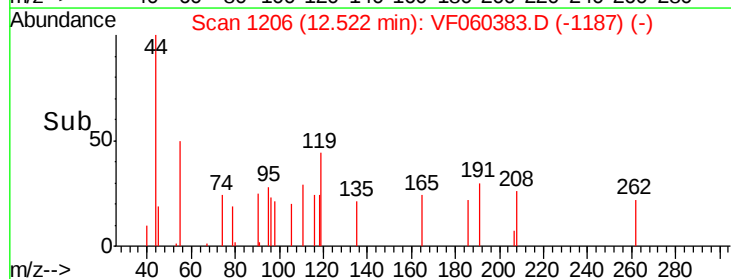
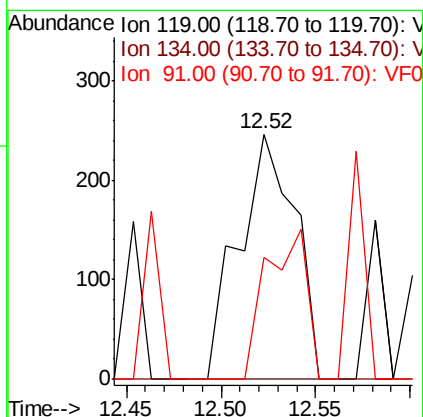
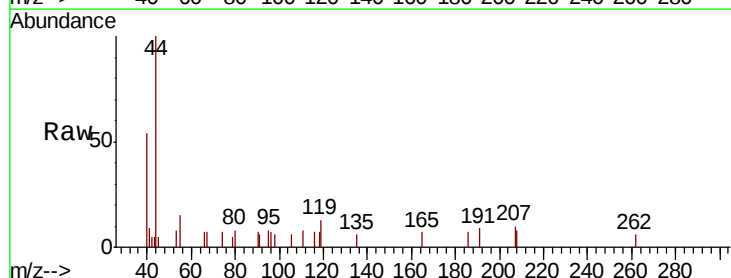
Instrument :
 MSVOA_F
 ClientSampleId :
 HC-SOIL-4

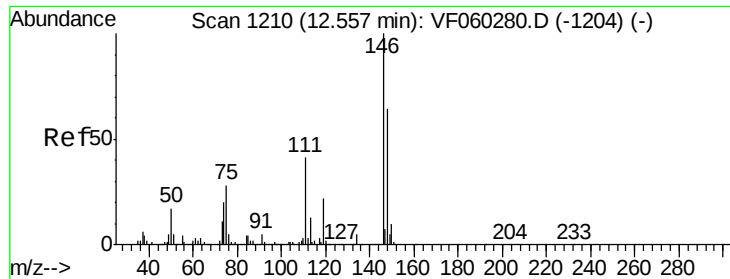
Tot Ion:105 Resp: 69
 Ion Ratio Lower Upper
 105 100
 120 0.0 22.4 67.0#



#86
 p-Isopropyltoluene
 Concen: 16.383 ug/l
 RT: 12.52 min Scan# 1206
 Delta R.T. -0.01 min
 Lab File: VF060383.D
 Acq: 28 Sep 2018 22:41

Tgt Ion:119 Resp: 509
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.9 38.7#
 91 49.6 11.9 35.7#

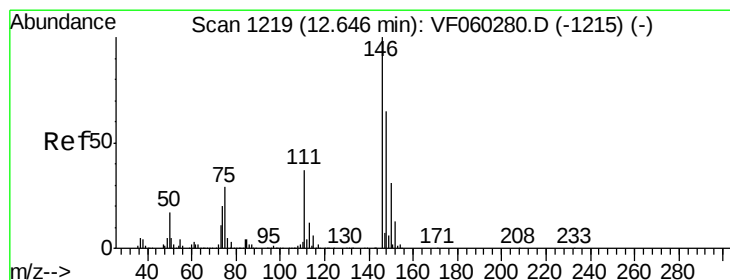
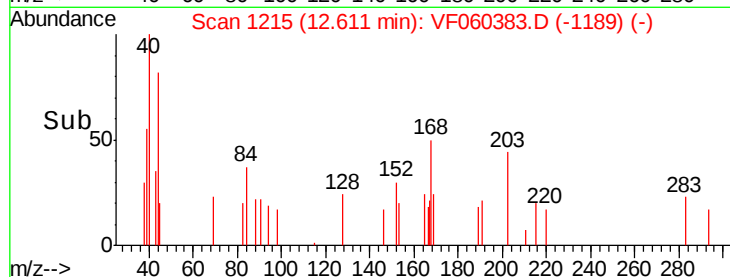
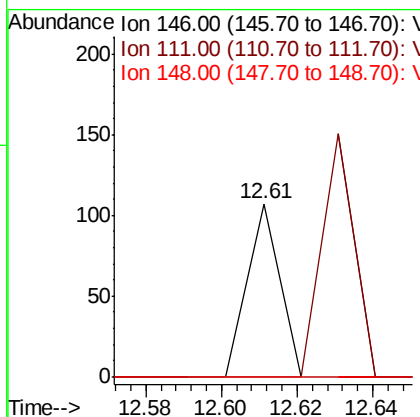
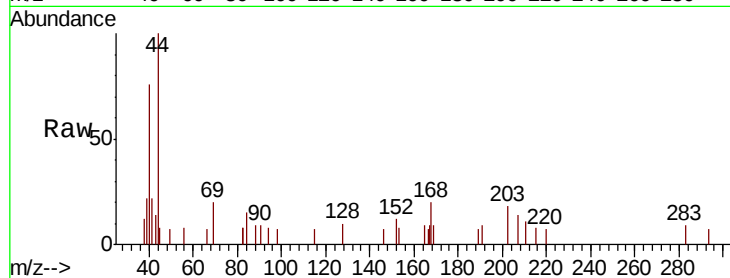




#87
 1,3-Dichlorobenzene
 Concen: 5.066 ug/l
 RT: 12.61 min Scan# 1215
 Delta R.T. 0.05 min
 Lab File: VF060383.D
 Acq: 28 Sep 2018 22:41

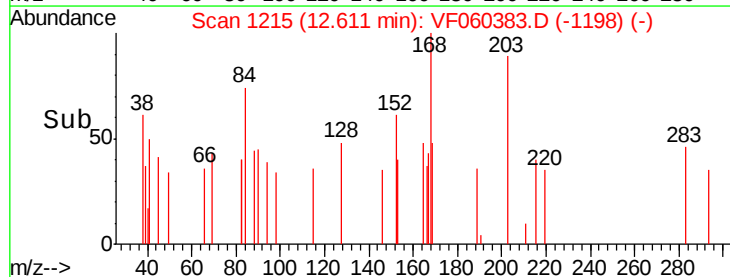
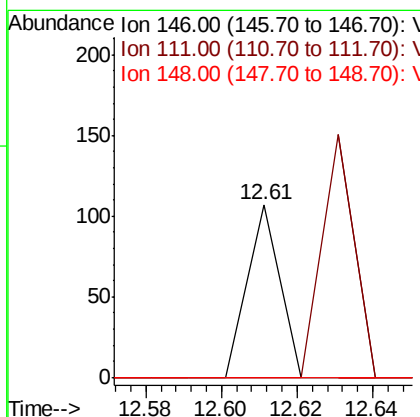
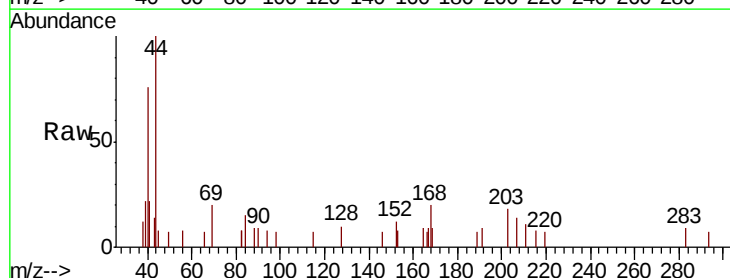
Instrument :
 MSVOA_F
 ClientSampled :
 HC-SOIL-4

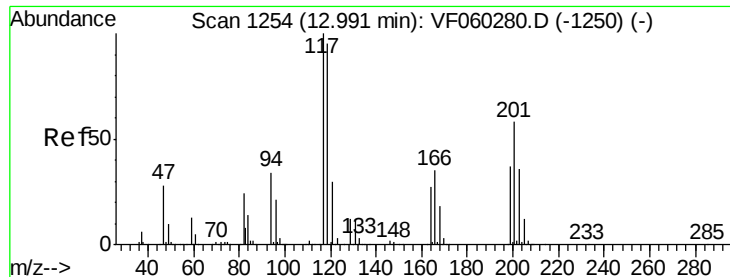
Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	20.5	61.6#
148	0.0	32.2	96.6#



#88
 1,4-Dichlorobenzene
 Concen: 5.125 ug/l
 RT: 12.61 min Scan# 1215
 Delta R.T. -0.03 min
 Lab File: VF060383.D
 Acq: 28 Sep 2018 22:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.7	56.1#
148	0.0	32.4	97.0#





#90

Hexachloroethane

Concen: 12.196 ug/l

RT: 12.99 min Scan# 1253

Delta R.T. -0.01 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampled :

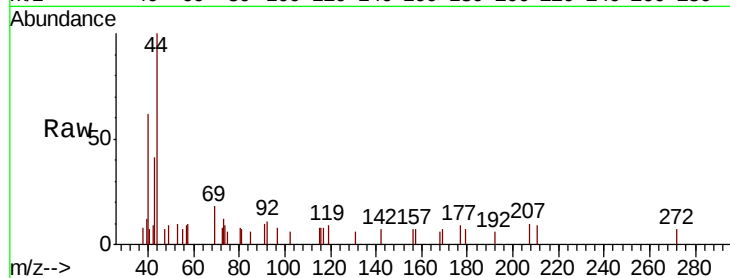
HC-SOIL-4

Tot Ion:117 Resp: 86

Ion Ratio Lower Upper

117 100

201 0.0 29.0 87.0#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 201.00 (200.70 to 201.70): V

12.99

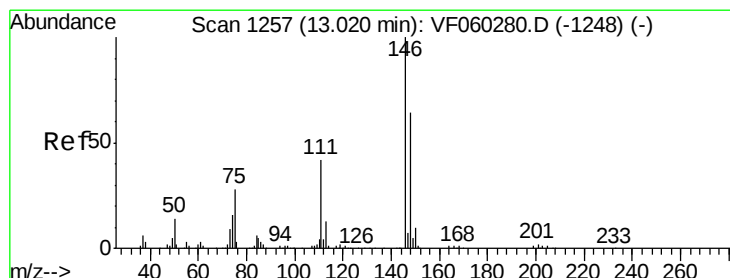
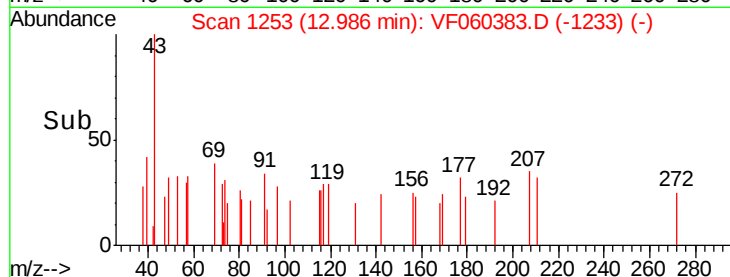
150

100

50

0

Time-->



#91

1,2-Dichlorobenzene

Concen: 5.816 ug/l

RT: 13.06 min Scan# 1261

Delta R.T. 0.04 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

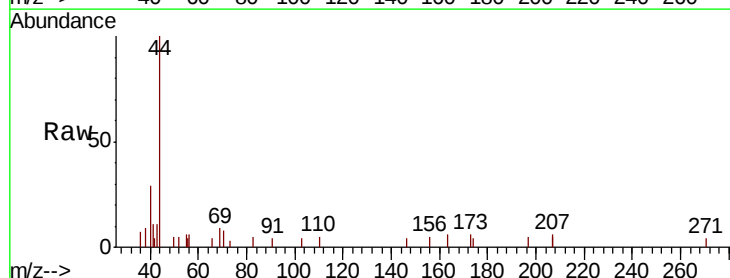
Tgt Ion:146 Resp: 69

Ion Ratio Lower Upper

146 100

111 0.0 20.9 62.8#

148 0.0 31.9 95.9#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

13.06

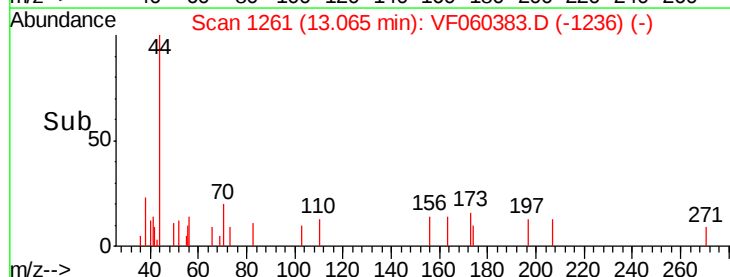
150

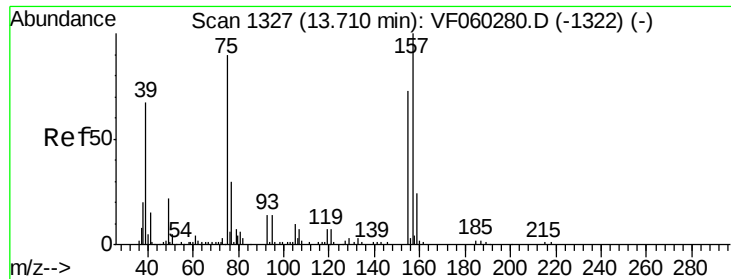
100

50

0

Time-->





#92

1,2-Dibromo-3-Chloropropane

Concen: 66.176 ug/l

RT: 13.79 min Scan# 1335

Delta R.T. 0.08 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4

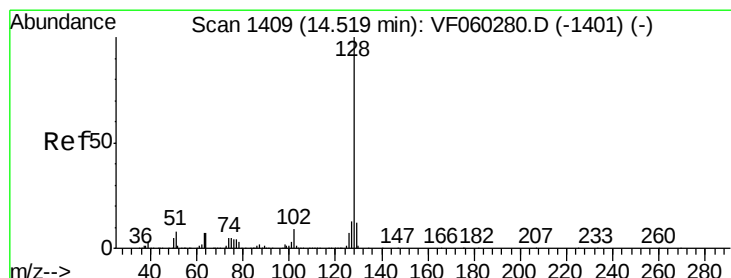
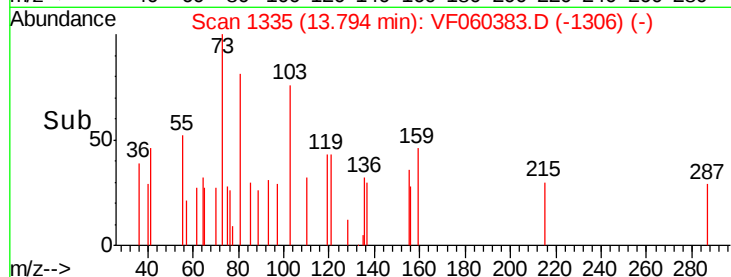
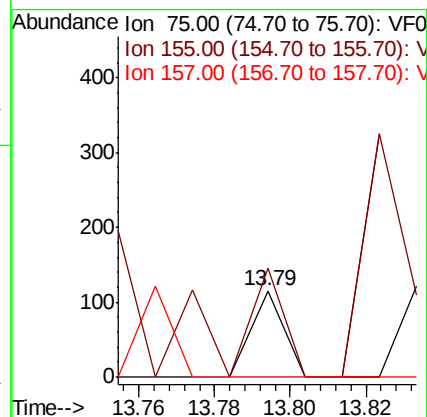
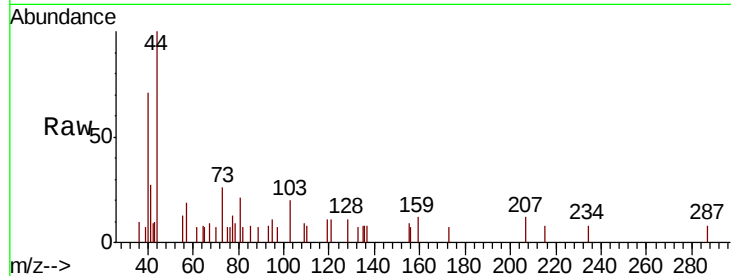
Tot Ion: 75 Resp: 68

Ion Ratio Lower Upper

75 100

155 126.1 41.9 125.7#

157 0.0 57.4 172.0#



#95

Naphthalene

Concen: 29.633 ug/l

RT: 14.52 min Scan# 1409

Delta R.T. 0.00 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

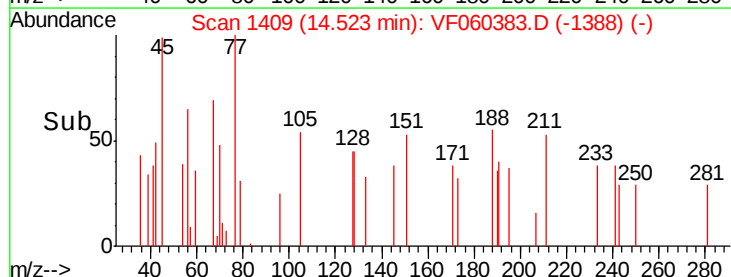
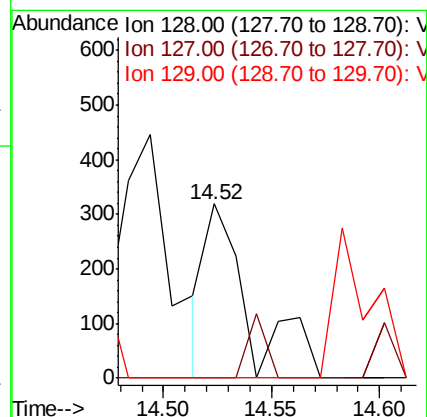
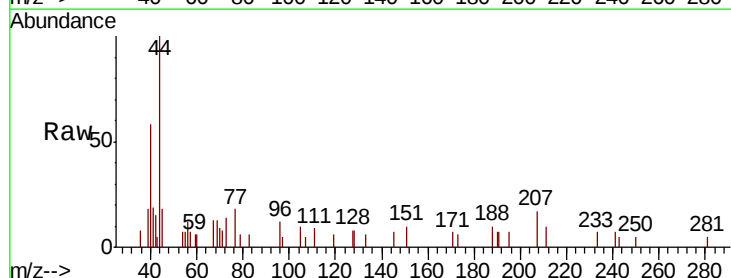
Tgt Ion: 128 Resp: 448

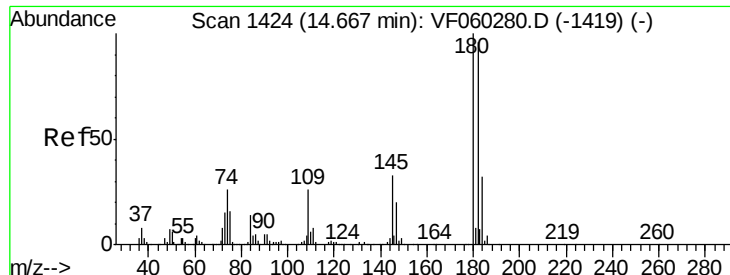
Ion Ratio Lower Upper

128 100

127 0.0 10.1 15.1#

129 0.0 9.8 14.8#





#96

1,2,3-Trichlorobenzene

Concen: 10.668 ug/l

RT: 14.66 min Scan# 1423

Delta R.T. -0.01 min

Lab File: VF060383.D

Acq: 28 Sep 2018 22:41

Instrument :

MSVOA_F

ClientSampleId :

HC-SOIL-4

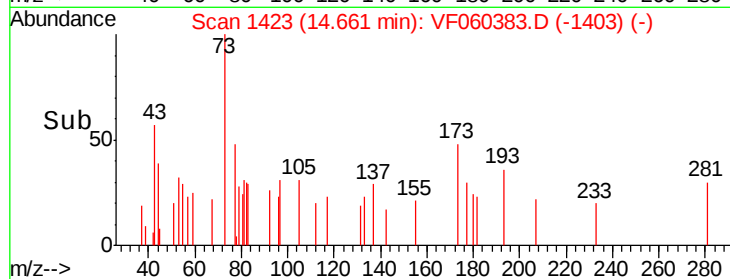
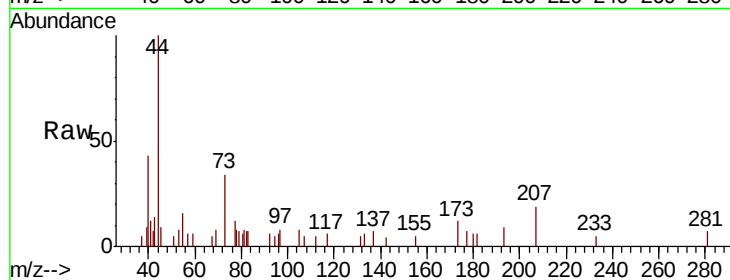
Tot Ion:180 Resp: 85

Ion Ratio Lower Upper

180 100

182 96.5 47.8 143.4

145 0.0 16.4 49.1#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

